

Pantheon Report

Generated at 2018-06-18 18:39:12 (UTC).

Data path: GCE Tokyo Ethernet (*local*) → GCE London Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

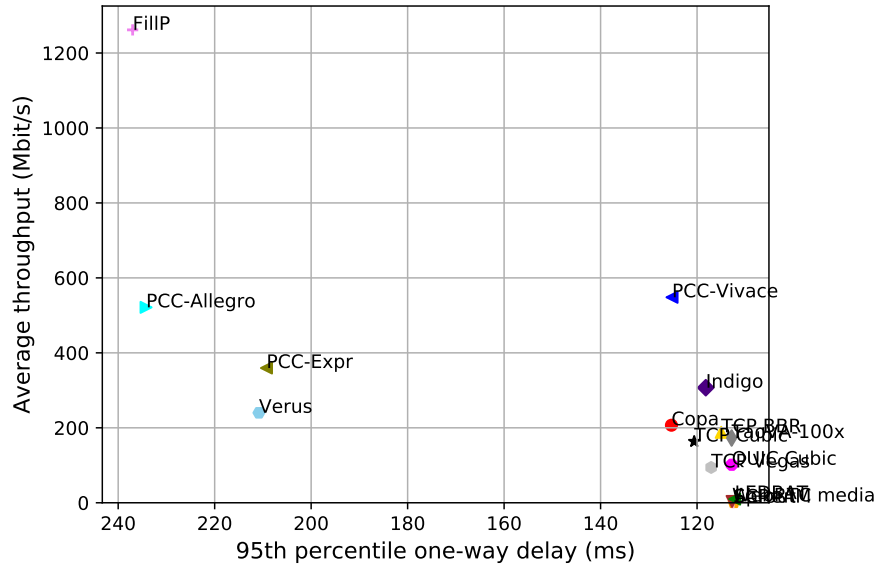
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

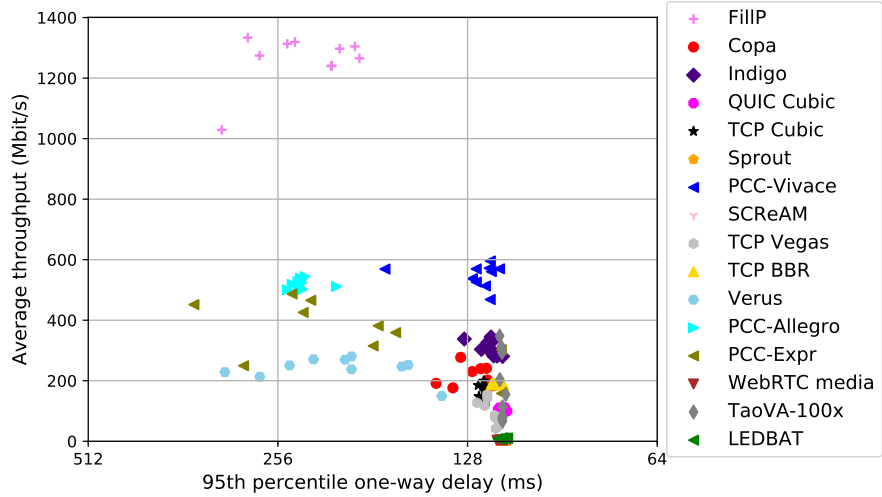
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/llnwd @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Tokyo to GCE London, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE London, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



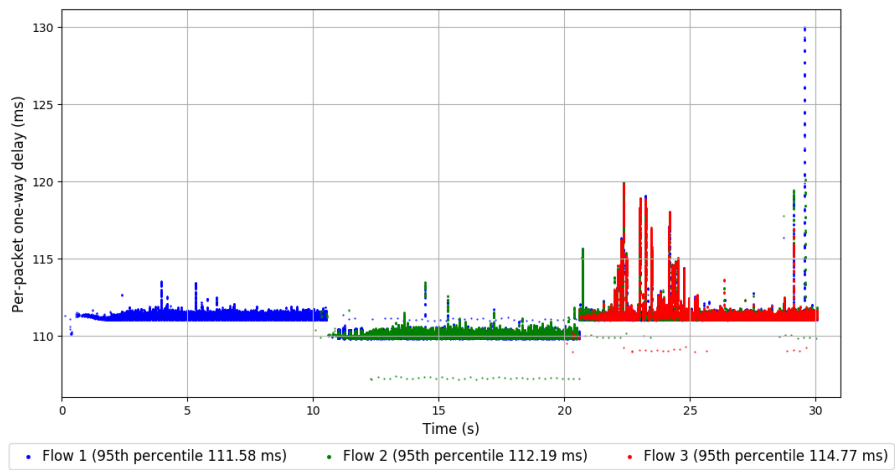
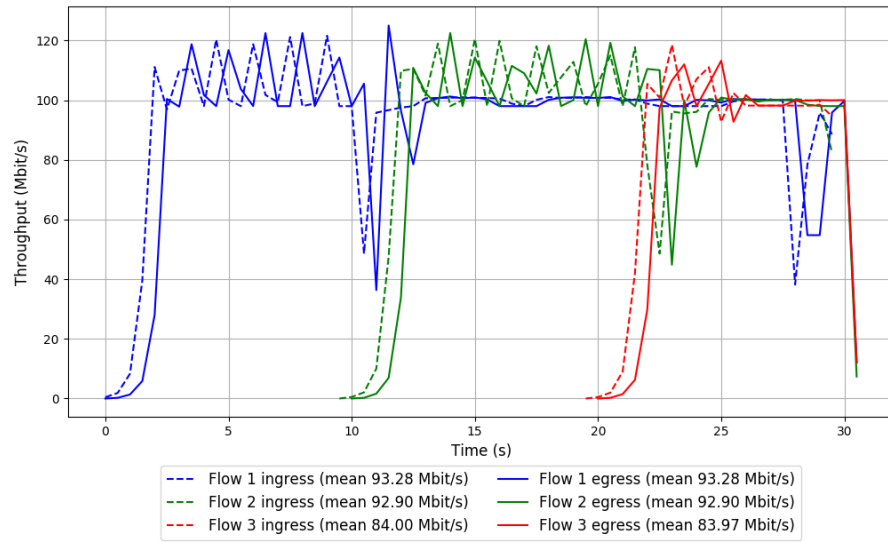
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	96.25	94.48	86.97	113.71	115.00	117.45	0.00	0.00	0.02
Copa	10	113.78	104.34	72.15	119.30	127.21	124.62	0.00	0.01	0.01
TCP Cubic	10	91.56	73.70	69.52	120.19	119.81	120.71	0.02	0.00	0.20
FillP	10	681.27	598.06	549.63	243.72	228.10	176.37	3.06	3.47	2.77
Indigo	10	151.78	166.76	139.31	116.13	118.50	120.25	0.00	0.00	0.02
LEDBAT	10	6.41	4.18	1.88	112.25	112.13	111.63	0.00	0.00	0.00
PCC-Allegro	10	477.22	46.23	40.68	234.33	232.28	221.95	2.15	1.48	2.33
PCC-Expr	10	241.19	148.75	58.69	209.04	173.21	171.39	2.87	1.43	2.09
QUIC Cubic	10	50.91	58.42	36.74	112.86	112.25	112.22	0.00	0.00	0.00
SCReAM	10	0.20	0.22	0.21	112.19	111.14	112.29	0.00	0.00	0.00
Sprout	10	0.21	0.22	0.27	112.31	112.07	111.89	0.00	0.00	0.00
TaoVA-100x	10	84.54	91.77	81.66	112.68	112.91	113.55	0.00	0.00	0.00
TCP Vegas	10	53.96	41.28	38.91	116.14	116.43	117.45	0.00	0.03	0.11
Verus	10	139.66	118.50	70.81	196.17	204.00	230.58	0.84	1.27	3.85
PCC-Vivace	10	318.42	273.77	144.47	127.02	127.81	131.69	0.05	0.13	0.35
WebRTC media	10	1.92	1.17	0.42	112.31	112.18	111.97	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 12:50:00
End at: 2018-06-18 12:50:30
Local clock offset: 1.233 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-06-18 16:56:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 183.17 Mbit/s
95th percentile per-packet one-way delay: 112.162 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 111.579 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 112.191 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 83.97 Mbit/s
95th percentile per-packet one-way delay: 114.765 ms
Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-18 13:13:55

End at: 2018-06-18 13:14:25

Local clock offset: -1.176 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-18 16:56:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.13 Mbit/s

95th percentile per-packet one-way delay: 115.937 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 114.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 115.416 ms

Loss rate: 0.01%

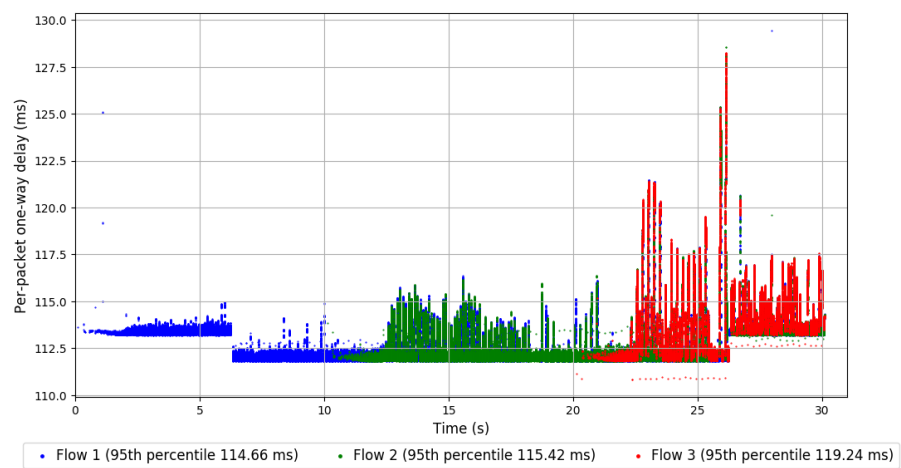
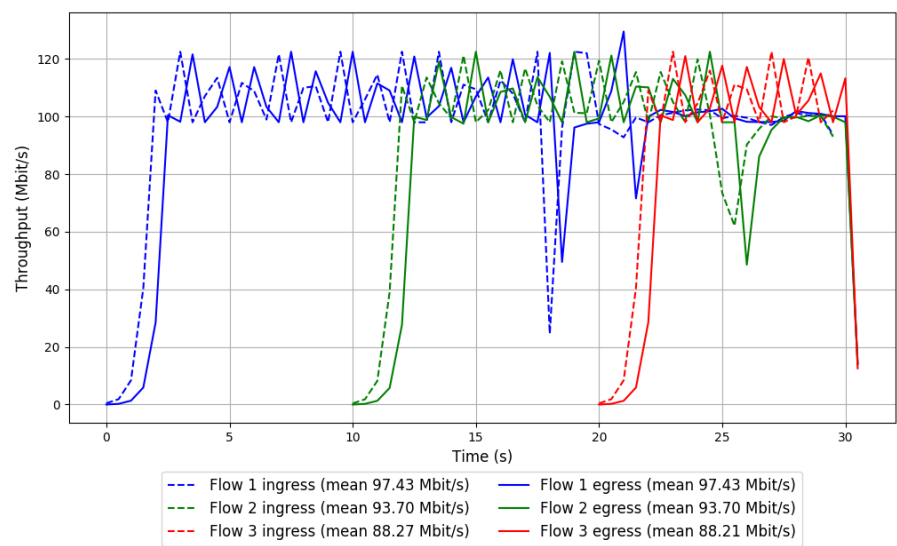
-- Flow 3:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 119.242 ms

Loss rate: 0.04%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-18 13:37:56

End at: 2018-06-18 13:38:26

Local clock offset: 0.078 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-18 16:56:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.06 Mbit/s

95th percentile per-packet one-way delay: 113.314 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.41 Mbit/s

95th percentile per-packet one-way delay: 113.145 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 113.723 ms

Loss rate: 0.00%

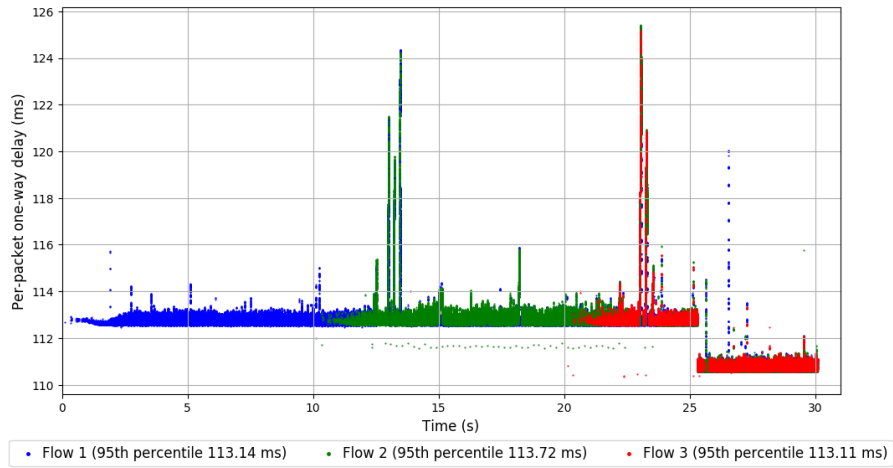
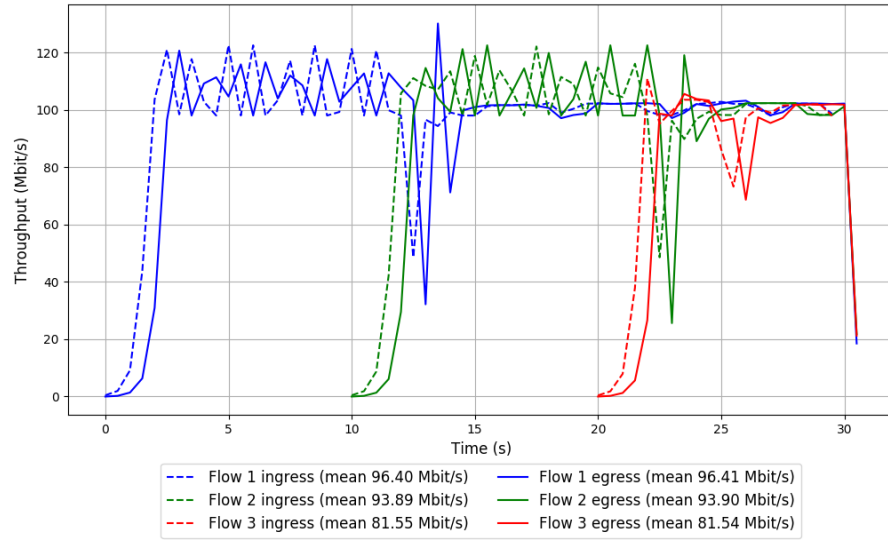
-- Flow 3:

Average throughput: 81.54 Mbit/s

95th percentile per-packet one-way delay: 113.111 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-18 14:01:46

End at: 2018-06-18 14:02:16

Local clock offset: 1.269 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-18 16:56:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 192.27 Mbit/s

95th percentile per-packet one-way delay: 117.112 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.38 Mbit/s

95th percentile per-packet one-way delay: 114.743 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.56 Mbit/s

95th percentile per-packet one-way delay: 118.484 ms

Loss rate: 0.00%

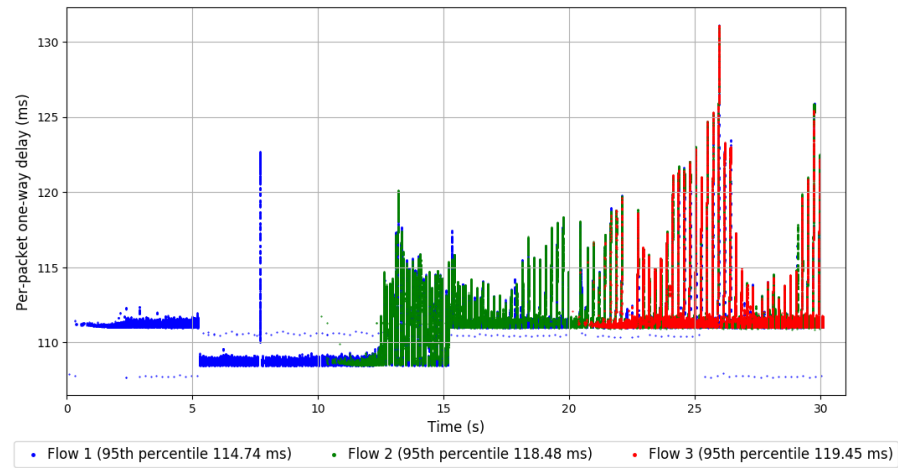
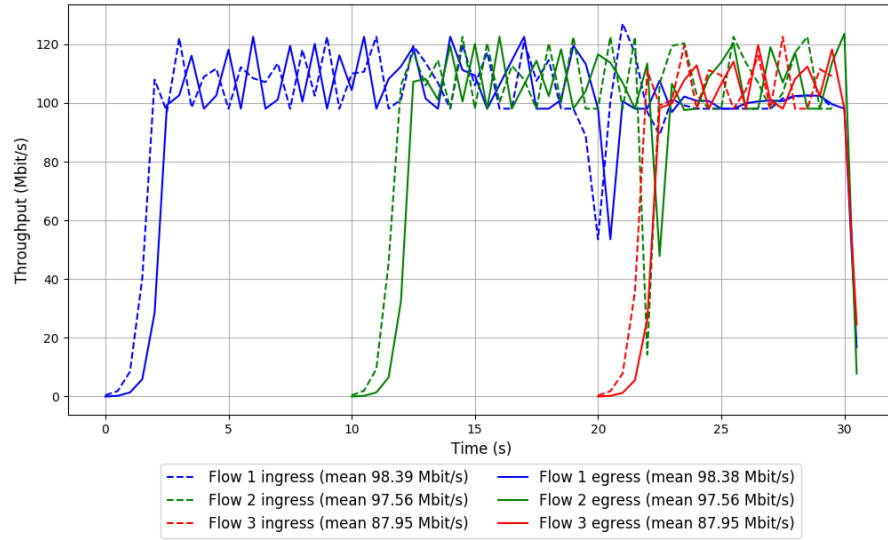
-- Flow 3:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 119.448 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-18 14:26:24

End at: 2018-06-18 14:26:54

Local clock offset: 1.42 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-18 16:56:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.92 Mbit/s

95th percentile per-packet one-way delay: 115.786 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.55 Mbit/s

95th percentile per-packet one-way delay: 115.503 ms

Loss rate: 0.00%

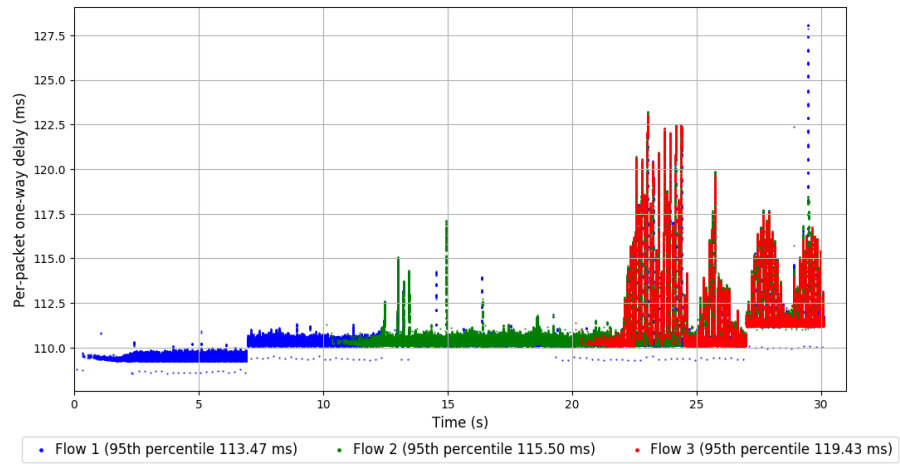
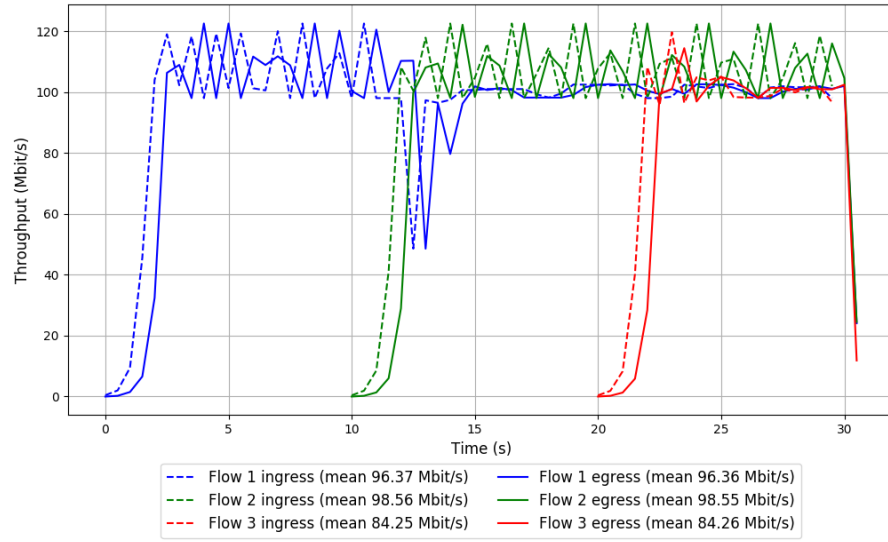
-- Flow 3:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 119.427 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link

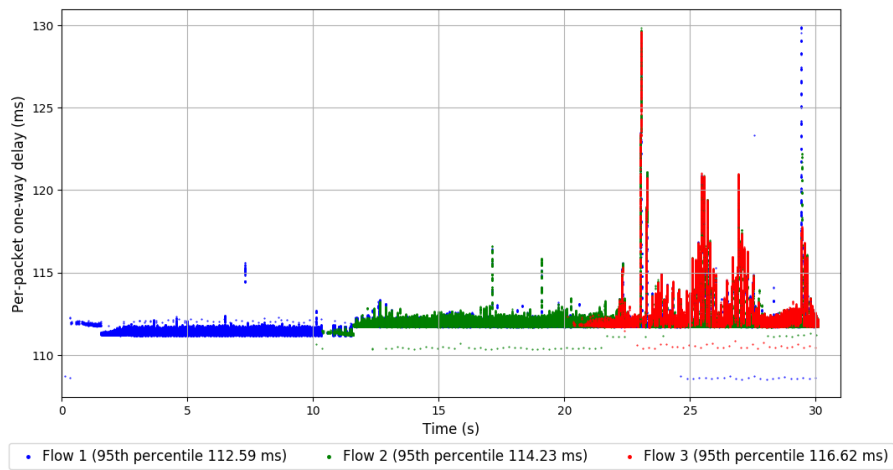
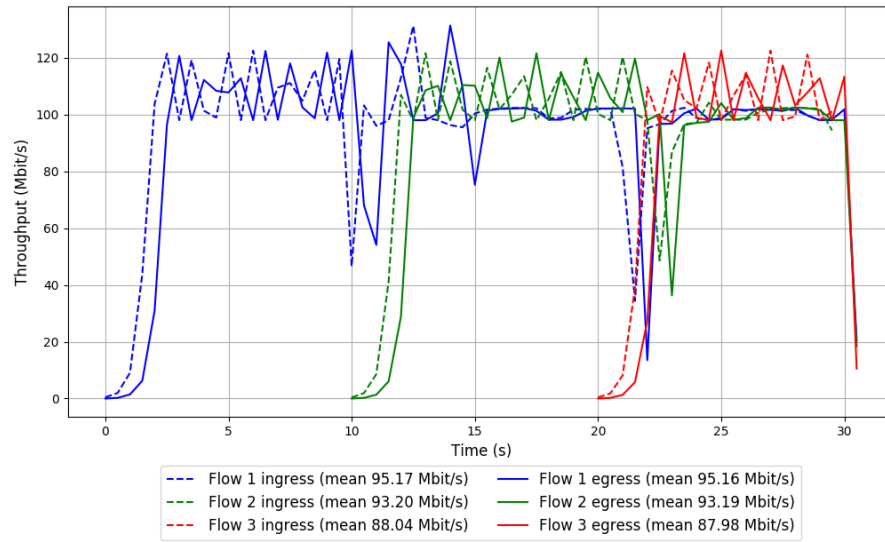


Run 6: Statistics of TCP BBR

Start at: 2018-06-18 14:50:30
End at: 2018-06-18 14:51:00
Local clock offset: -0.064 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2018-06-18 16:56:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 186.42 Mbit/s
95th percentile per-packet one-way delay: 114.368 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 112.586 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 114.226 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 87.98 Mbit/s
95th percentile per-packet one-way delay: 116.616 ms
Loss rate: 0.10%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-18 15:14:38

End at: 2018-06-18 15:15:08

Local clock offset: 0.128 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-18 16:56:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.40 Mbit/s

95th percentile per-packet one-way delay: 117.320 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 116.108 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 116.825 ms

Loss rate: 0.00%

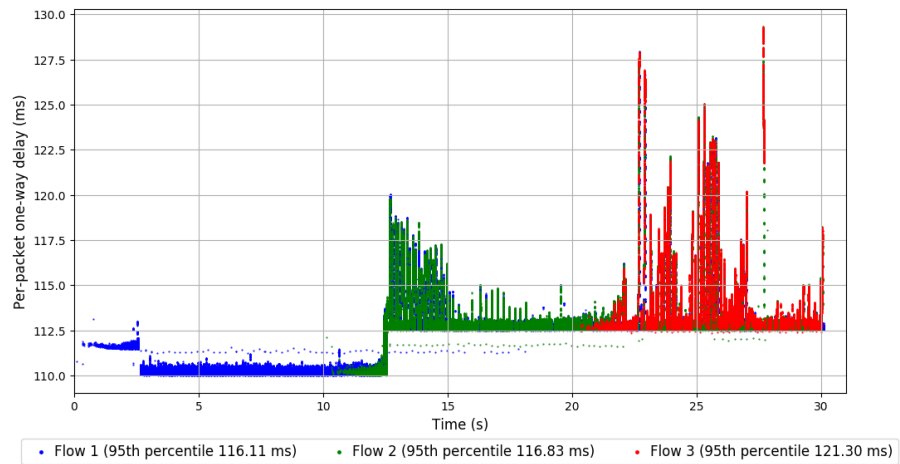
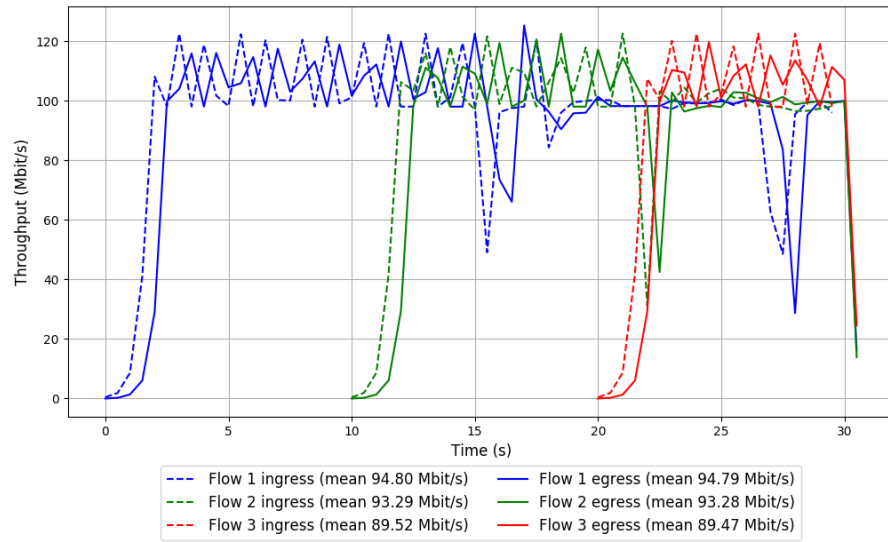
-- Flow 3:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 121.296 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-18 15:38:25

End at: 2018-06-18 15:38:55

Local clock offset: -1.25 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-18 16:56:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.33 Mbit/s

95th percentile per-packet one-way delay: 115.795 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 114.603 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 115.842 ms

Loss rate: 0.00%

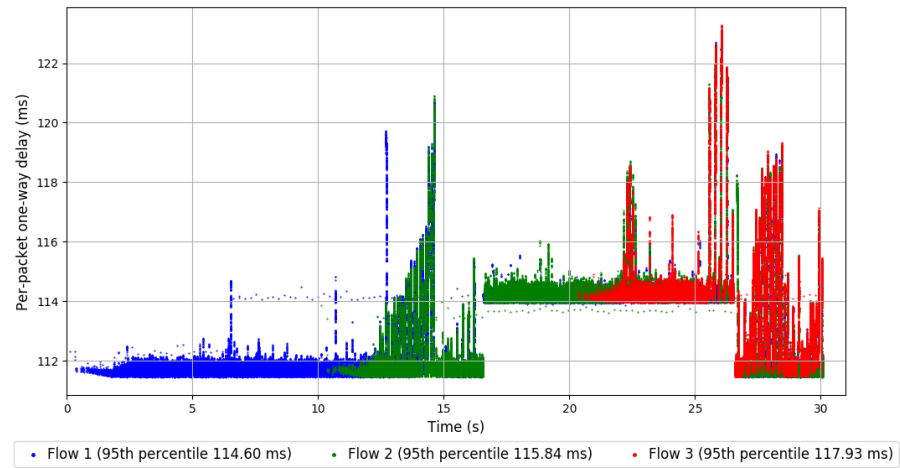
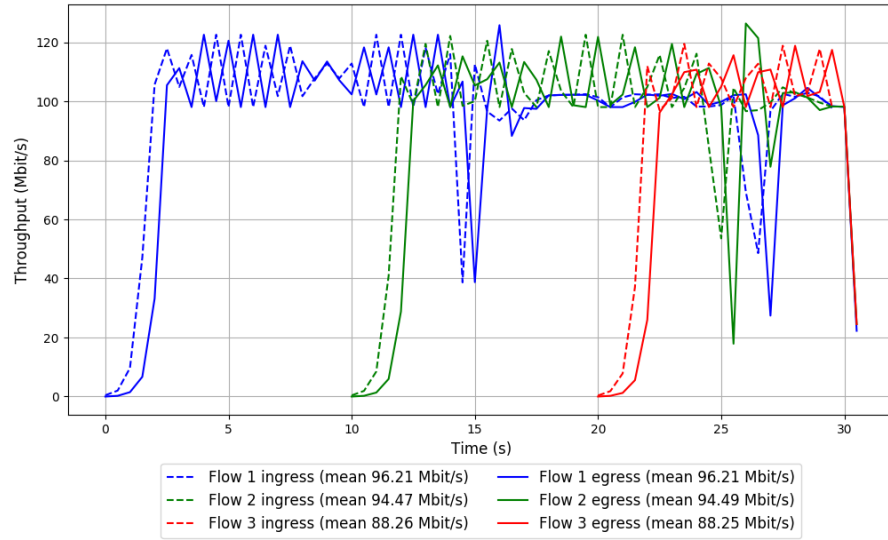
-- Flow 3:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 117.926 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-18 16:02:00

End at: 2018-06-18 16:02:30

Local clock offset: -0.165 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2018-06-18 16:58:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.25 Mbit/s

95th percentile per-packet one-way delay: 112.235 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 95.29 Mbit/s

95th percentile per-packet one-way delay: 111.016 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 111.806 ms

Loss rate: 0.00%

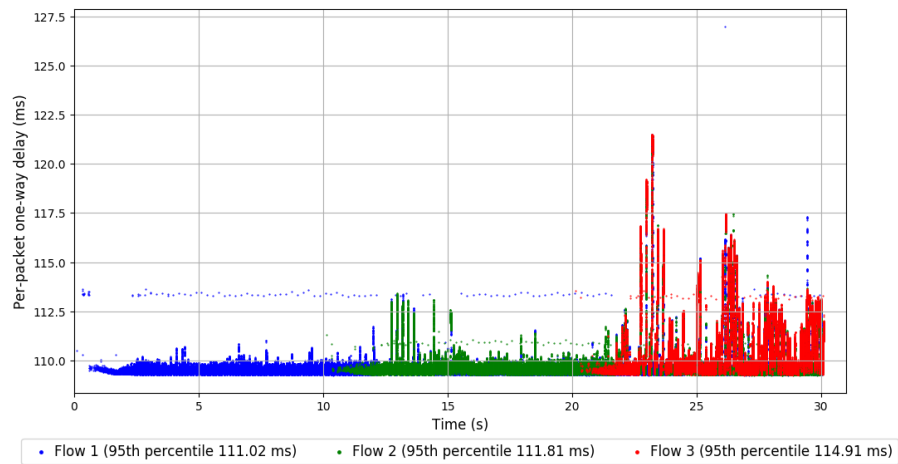
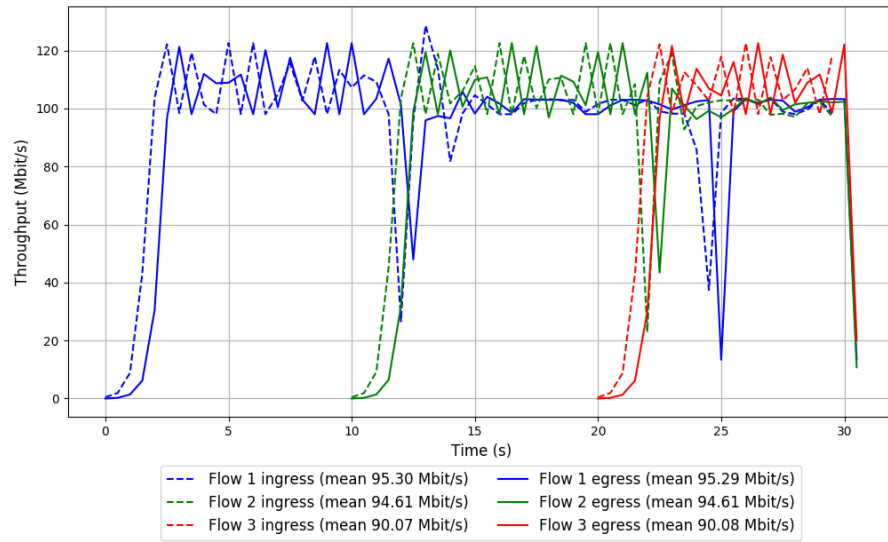
-- Flow 3:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: 114.906 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-18 16:25:42

End at: 2018-06-18 16:26:12

Local clock offset: 0.05 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-18 16:58:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.10 Mbit/s

95th percentile per-packet one-way delay: 115.949 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 99.19 Mbit/s

95th percentile per-packet one-way delay: 115.194 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 115.962 ms

Loss rate: 0.00%

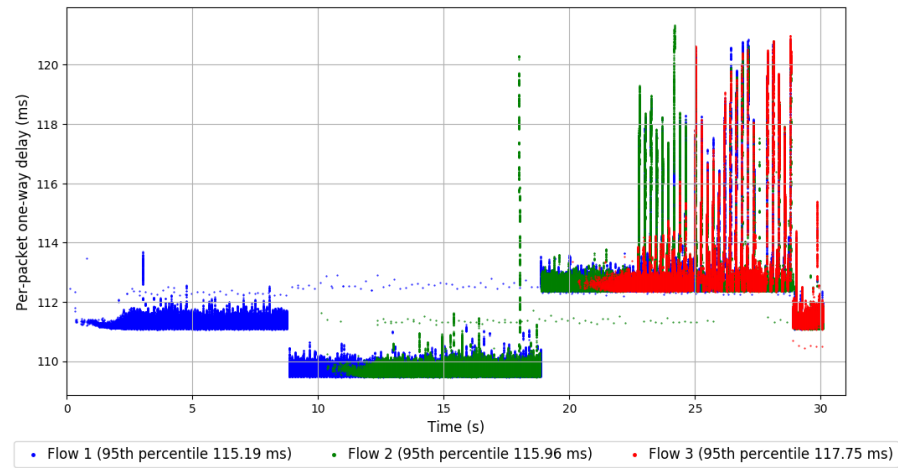
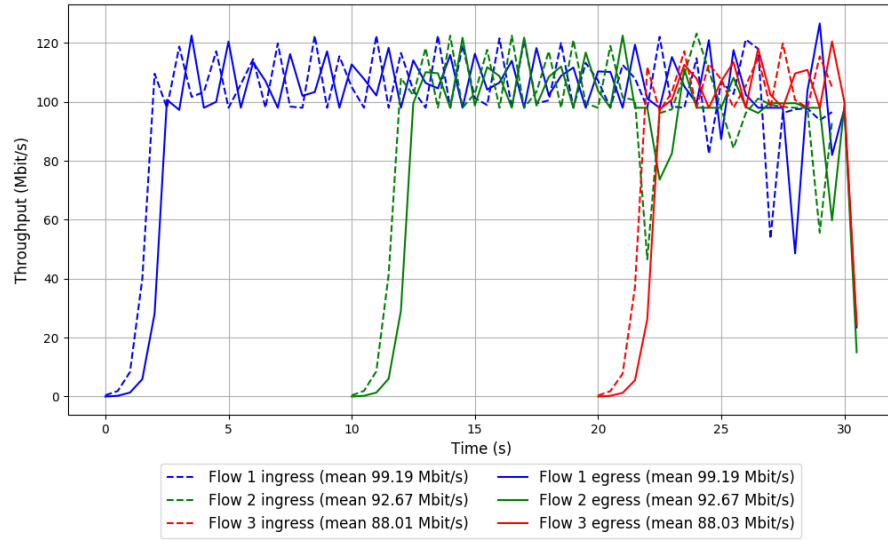
-- Flow 3:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 117.754 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-18 13:03:29

End at: 2018-06-18 13:03:59

Local clock offset: 0.07 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-18 17:01:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.31 Mbit/s

95th percentile per-packet one-way delay: 118.985 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.05 Mbit/s

95th percentile per-packet one-way delay: 115.861 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.35 Mbit/s

95th percentile per-packet one-way delay: 121.391 ms

Loss rate: 0.00%

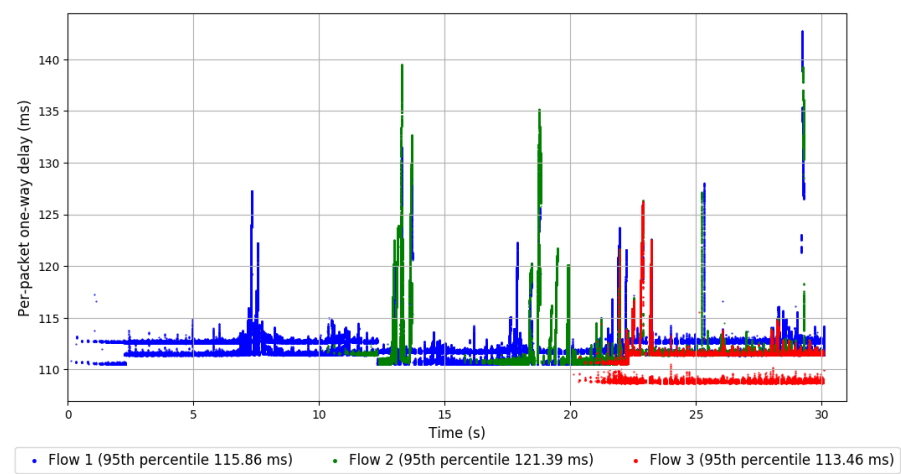
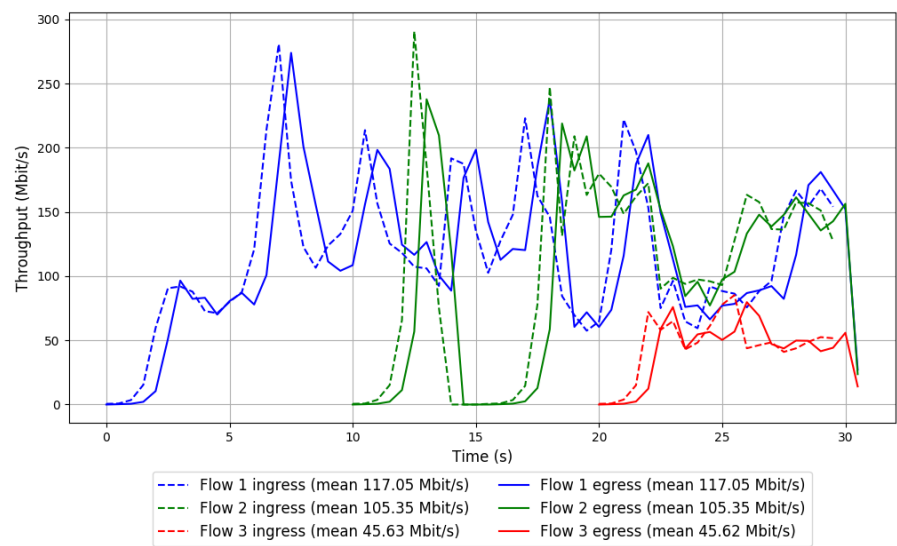
-- Flow 3:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 113.462 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-18 13:27:34

End at: 2018-06-18 13:28:04

Local clock offset: -0.129 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-18 17:01:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.16 Mbit/s

95th percentile per-packet one-way delay: 121.777 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 112.922 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 105.73 Mbit/s

95th percentile per-packet one-way delay: 132.548 ms

Loss rate: 0.00%

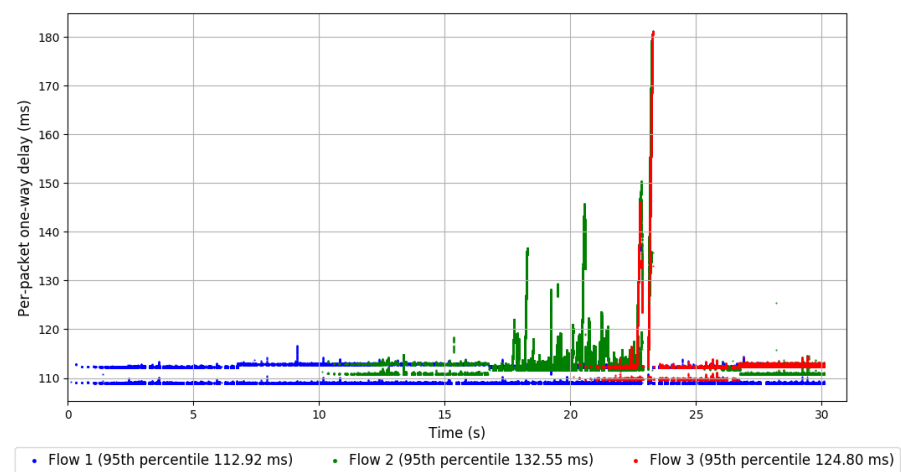
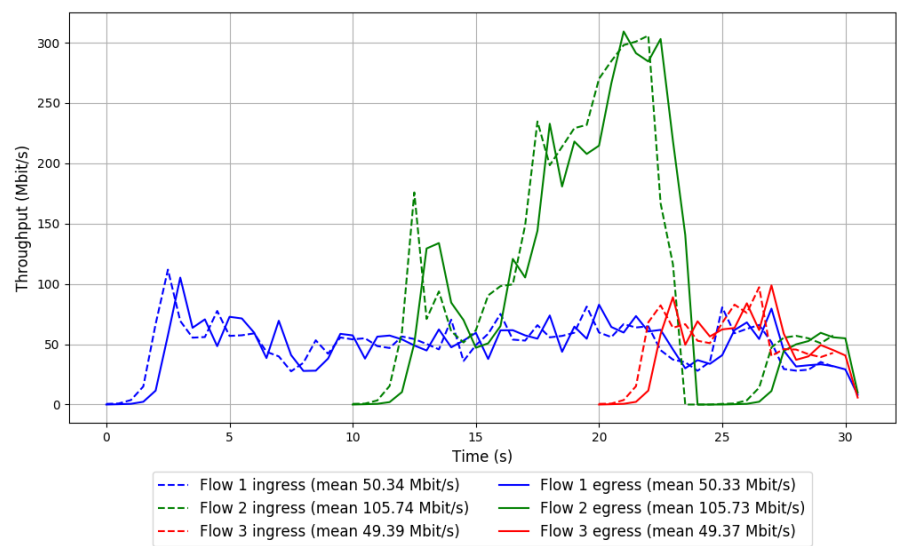
-- Flow 3:

Average throughput: 49.37 Mbit/s

95th percentile per-packet one-way delay: 124.796 ms

Loss rate: 0.03%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-18 13:51:16

End at: 2018-06-18 13:51:46

Local clock offset: 0.095 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-18 17:03:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.89 Mbit/s

95th percentile per-packet one-way delay: 121.998 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 140.74 Mbit/s

95th percentile per-packet one-way delay: 122.222 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 107.04 Mbit/s

95th percentile per-packet one-way delay: 126.930 ms

Loss rate: 0.00%

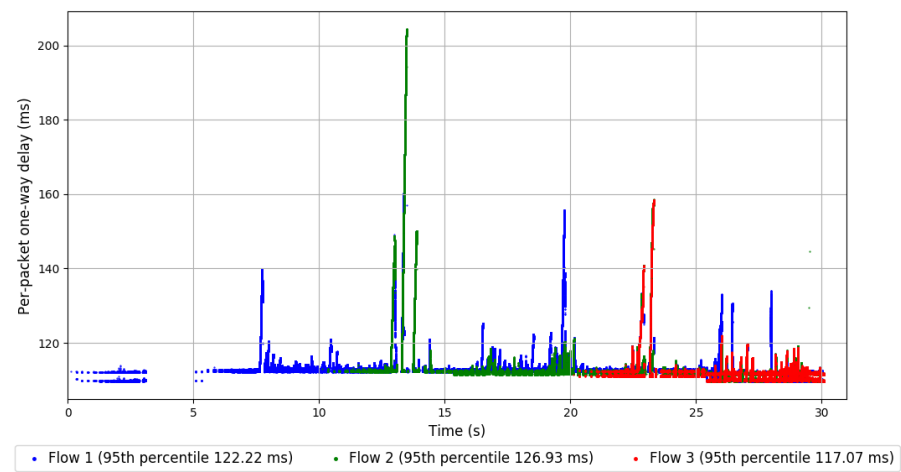
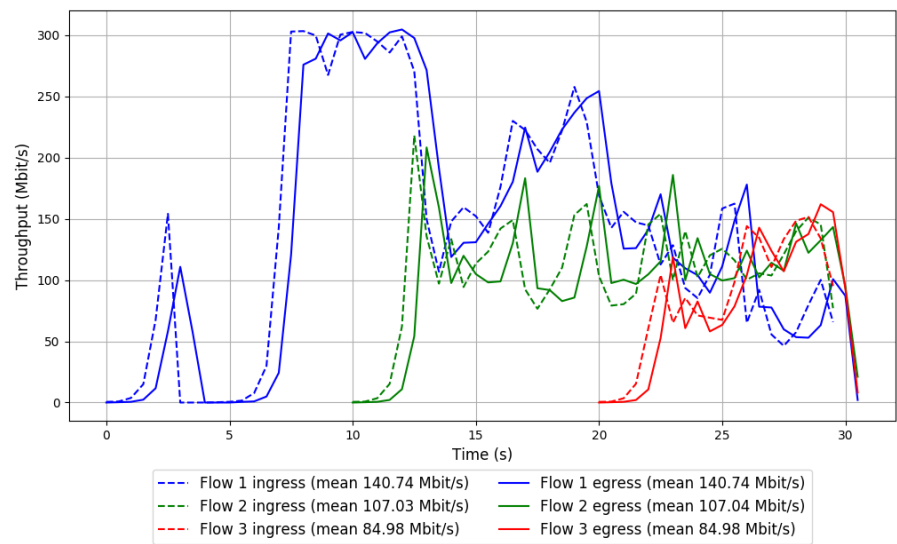
-- Flow 3:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 117.073 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-18 14:15:23

End at: 2018-06-18 14:15:53

Local clock offset: -0.251 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-18 17:04:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.30 Mbit/s

95th percentile per-packet one-way delay: 131.243 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 131.587 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.67 Mbit/s

95th percentile per-packet one-way delay: 127.321 ms

Loss rate: 0.00%

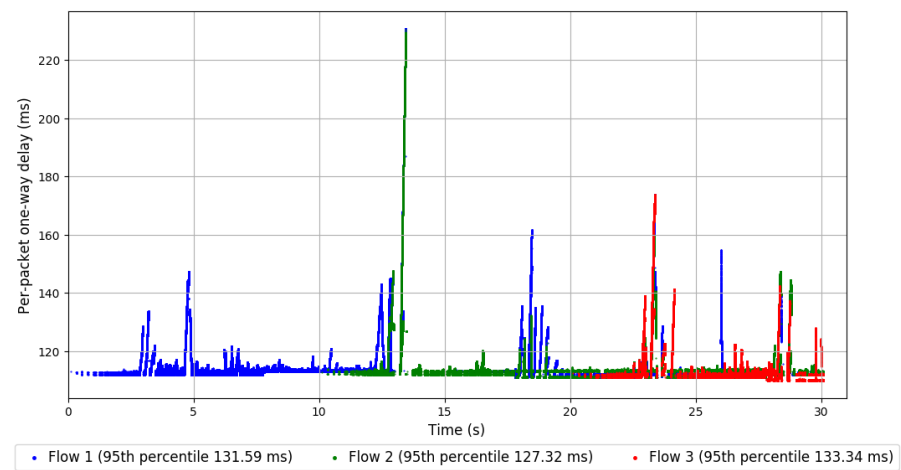
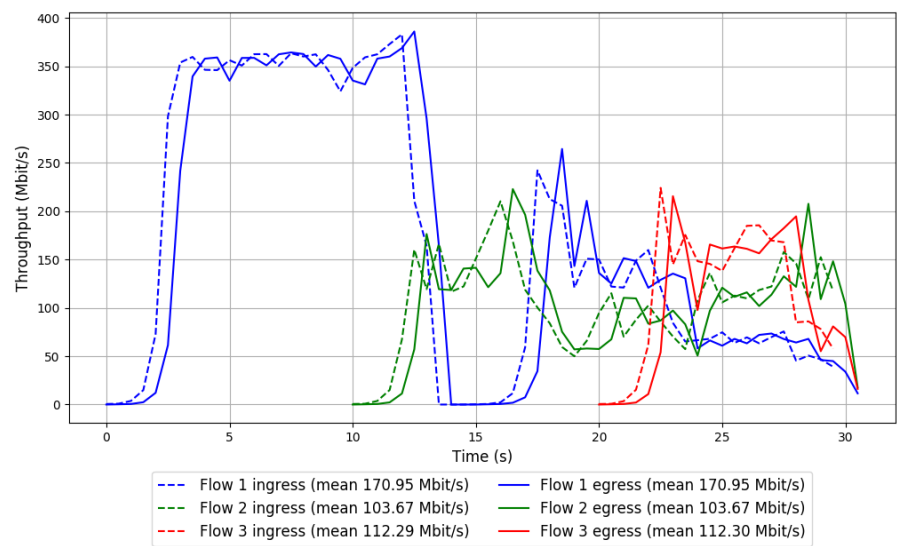
-- Flow 3:

Average throughput: 112.30 Mbit/s

95th percentile per-packet one-way delay: 133.335 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-18 14:39:46

End at: 2018-06-18 14:40:16

Local clock offset: 1.217 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2018-06-18 17:04:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.46 Mbit/s

95th percentile per-packet one-way delay: 125.780 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 152.30 Mbit/s

95th percentile per-packet one-way delay: 128.649 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 113.424 ms

Loss rate: 0.00%

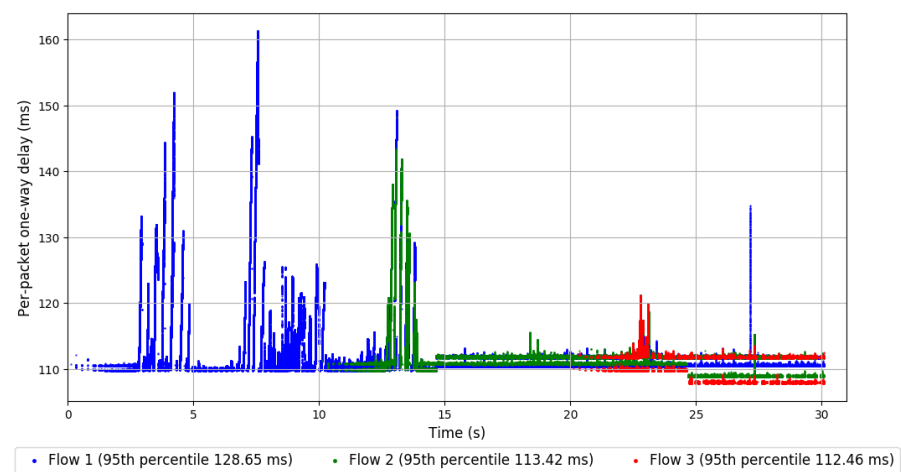
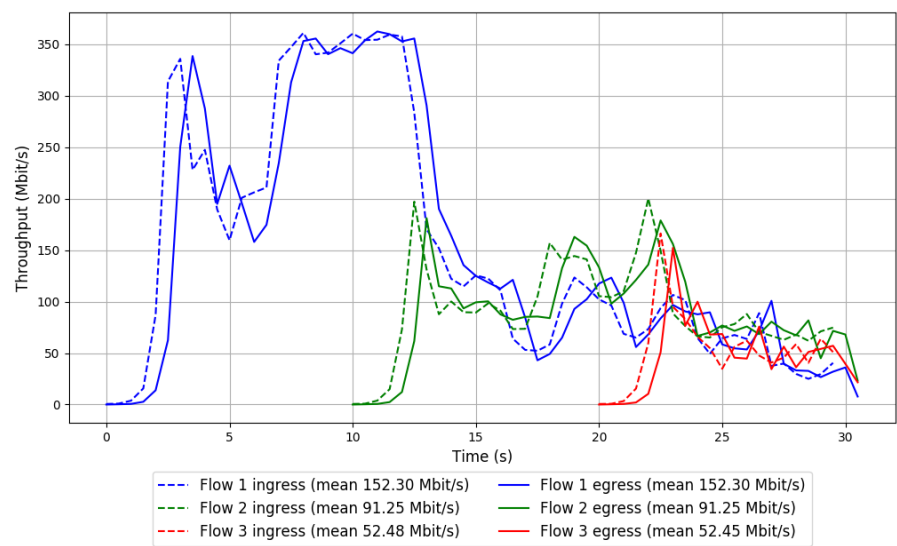
-- Flow 3:

Average throughput: 52.45 Mbit/s

95th percentile per-packet one-way delay: 112.464 ms

Loss rate: 0.05%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-18 15:04:00

End at: 2018-06-18 15:04:30

Local clock offset: -0.181 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-18 17:04:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.16 Mbit/s

95th percentile per-packet one-way delay: 119.444 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 137.85 Mbit/s

95th percentile per-packet one-way delay: 116.070 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.11 Mbit/s

95th percentile per-packet one-way delay: 124.920 ms

Loss rate: 0.00%

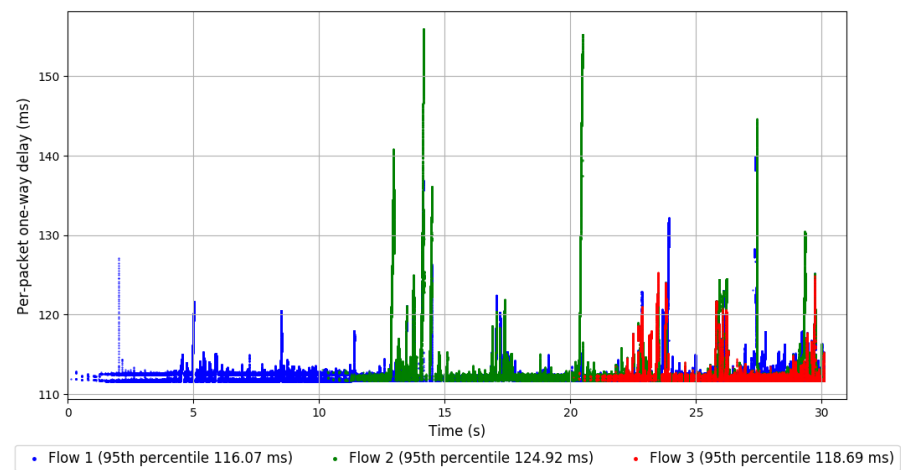
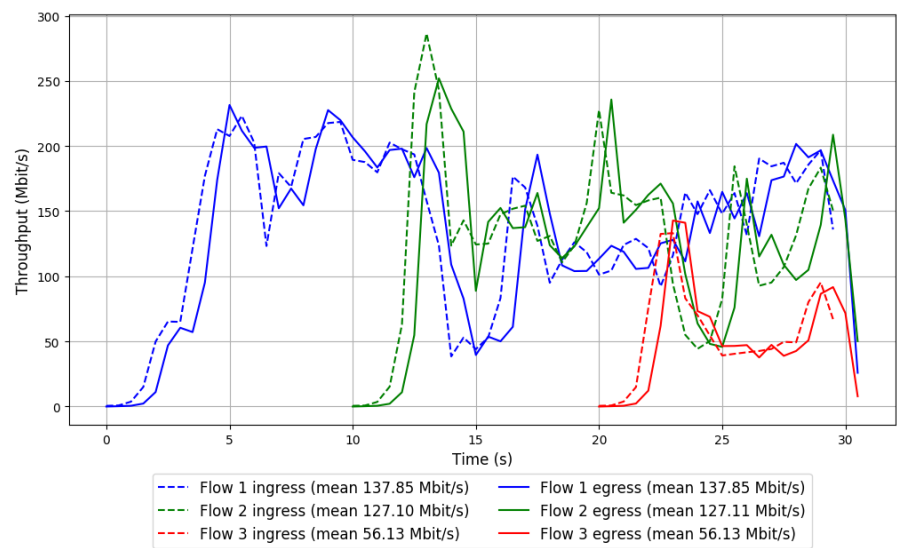
-- Flow 3:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 118.692 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

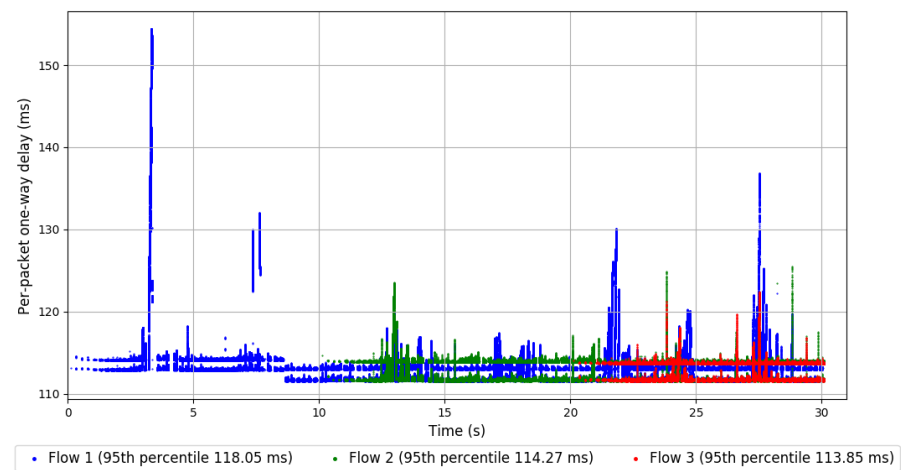
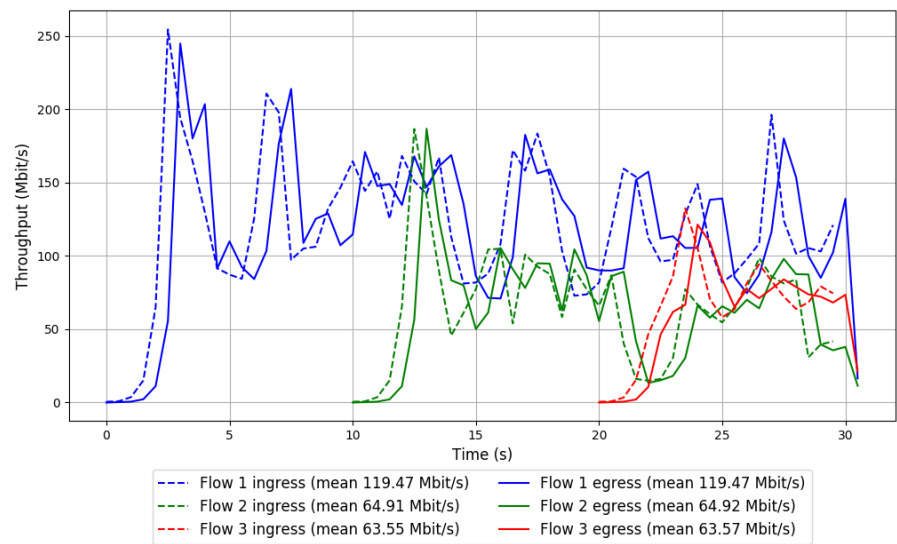


Run 7: Statistics of Copa

Start at: 2018-06-18 15:28:02
End at: 2018-06-18 15:28:32
Local clock offset: -1.316 ms
Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-06-18 17:04:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 183.72 Mbit/s
95th percentile per-packet one-way delay: 116.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 119.47 Mbit/s
95th percentile per-packet one-way delay: 118.048 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.92 Mbit/s
95th percentile per-packet one-way delay: 114.271 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.57 Mbit/s
95th percentile per-packet one-way delay: 113.851 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-18 15:51:36

End at: 2018-06-18 15:52:06

Local clock offset: 0.038 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-06-18 17:04:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.54 Mbit/s

95th percentile per-packet one-way delay: 135.051 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.60 Mbit/s

95th percentile per-packet one-way delay: 147.088 ms

Loss rate: 0.00%

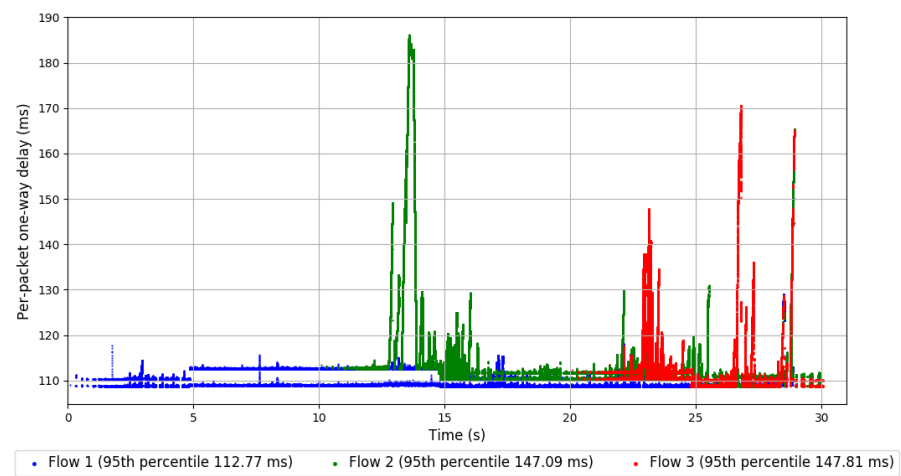
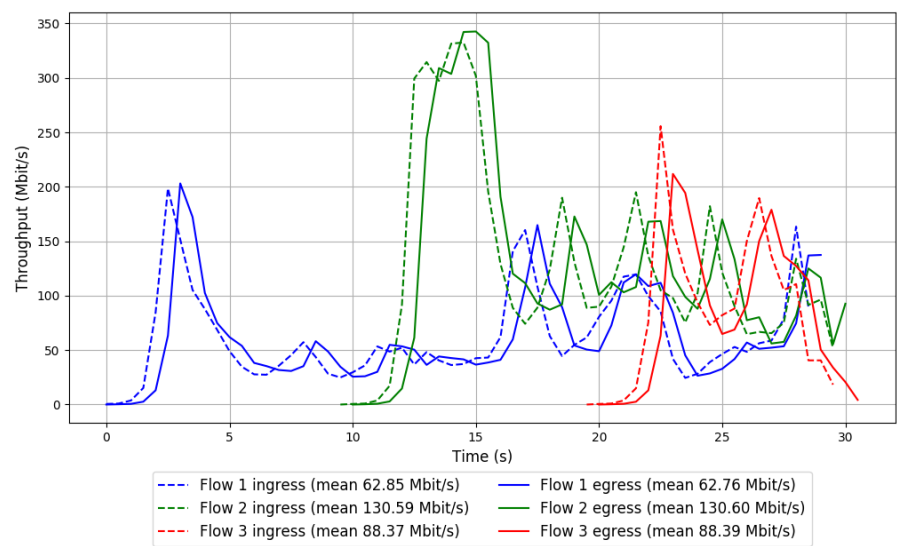
-- Flow 3:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 147.806 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-18 16:15:20

End at: 2018-06-18 16:15:50

Local clock offset: 0.104 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-06-18 17:06:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.70 Mbit/s

95th percentile per-packet one-way delay: 118.761 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 121.94 Mbit/s

95th percentile per-packet one-way delay: 120.364 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 112.987 ms

Loss rate: 0.00%

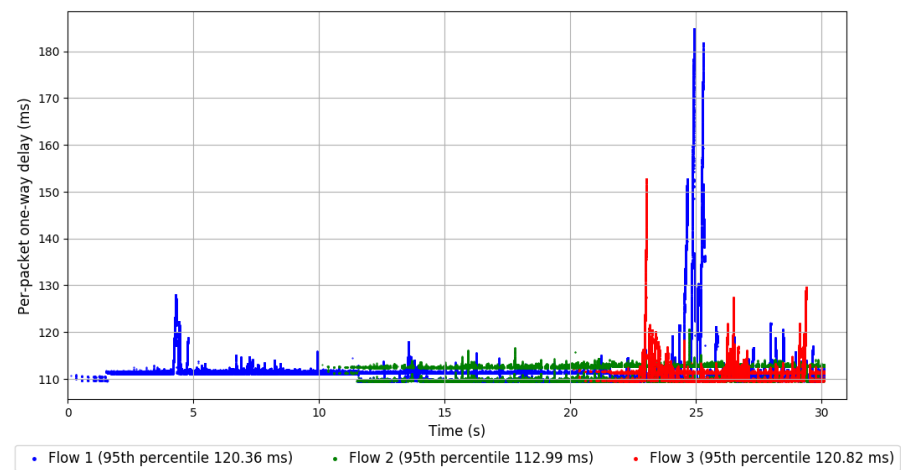
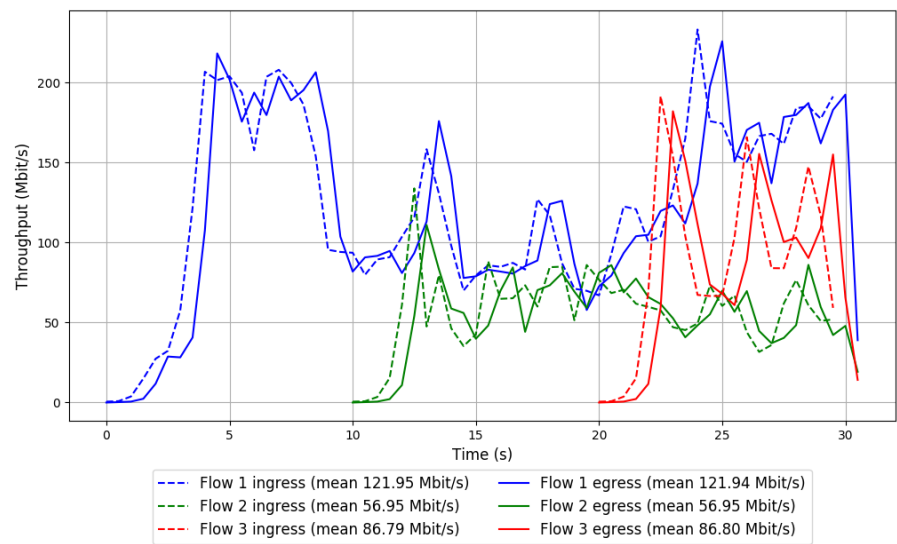
-- Flow 3:

Average throughput: 86.80 Mbit/s

95th percentile per-packet one-way delay: 120.819 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-18 16:39:07

End at: 2018-06-18 16:39:37

Local clock offset: -0.065 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2018-06-18 17:08:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.53 Mbit/s

95th percentile per-packet one-way delay: 143.574 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 114.459 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.78 Mbit/s

95th percentile per-packet one-way delay: 151.211 ms

Loss rate: 0.08%

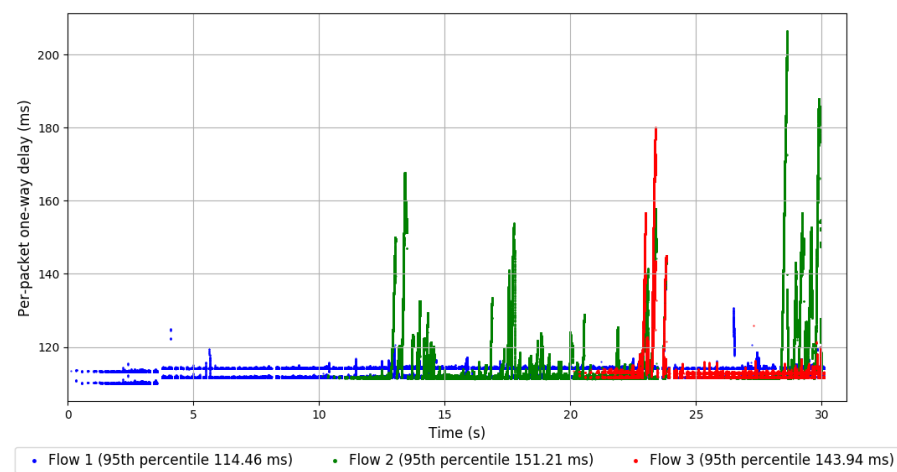
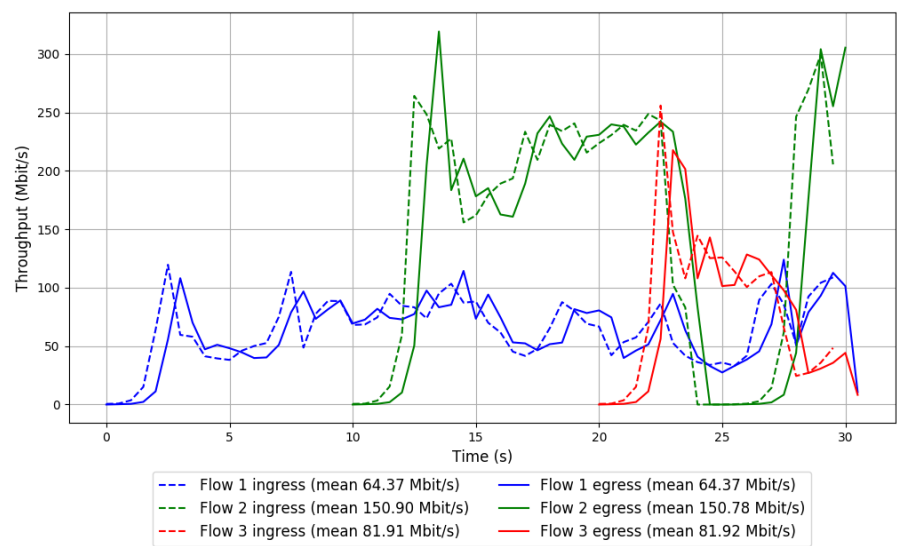
-- Flow 3:

Average throughput: 81.92 Mbit/s

95th percentile per-packet one-way delay: 143.935 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 13:00:47

End at: 2018-06-18 13:01:17

Local clock offset: 0.142 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-18 17:08:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.07 Mbit/s

95th percentile per-packet one-way delay: 119.671 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 120.084 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 99.70 Mbit/s

95th percentile per-packet one-way delay: 119.143 ms

Loss rate: 0.00%

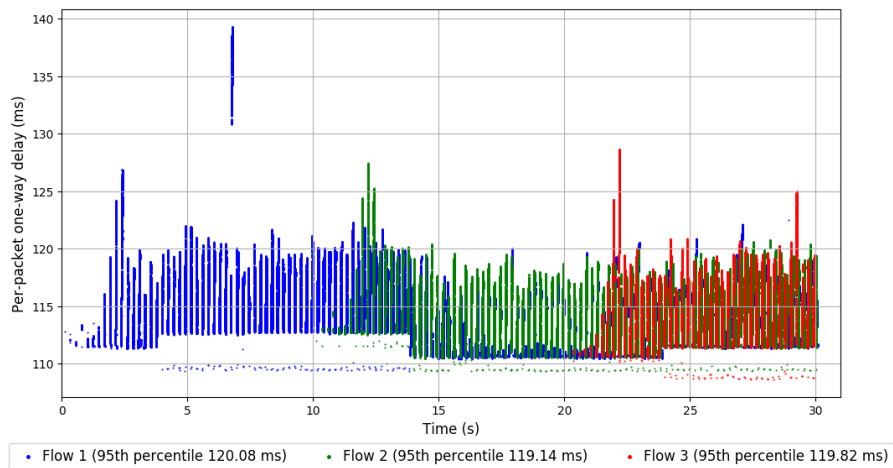
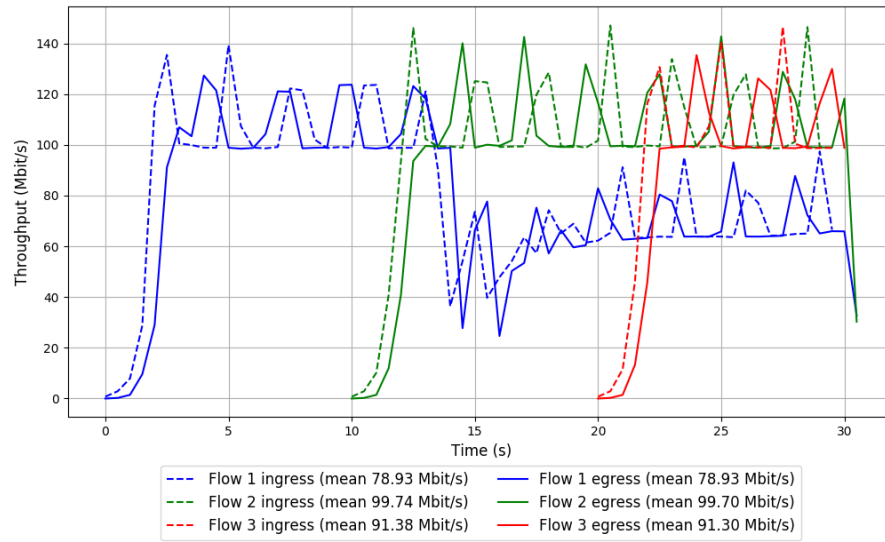
-- Flow 3:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 119.817 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-18 13:24:53

End at: 2018-06-18 13:25:23

Local clock offset: 0.118 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-06-18 17:08:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.63 Mbit/s

95th percentile per-packet one-way delay: 119.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.88 Mbit/s

95th percentile per-packet one-way delay: 120.084 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.26 Mbit/s

95th percentile per-packet one-way delay: 118.915 ms

Loss rate: 0.00%

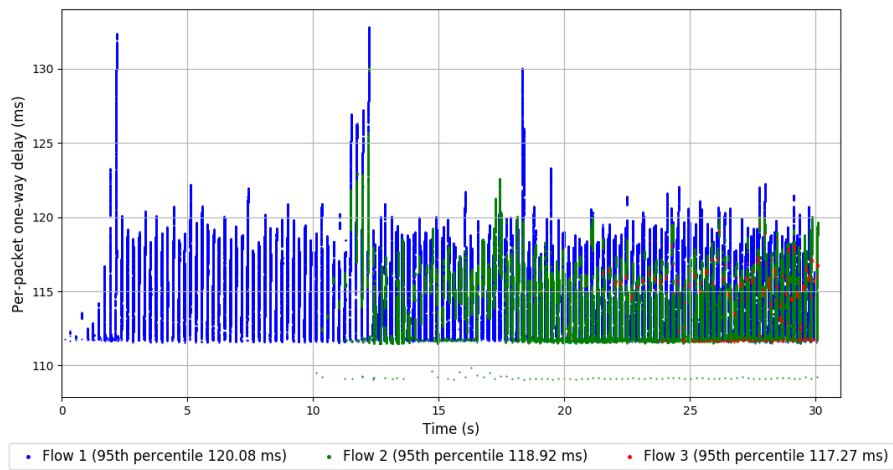
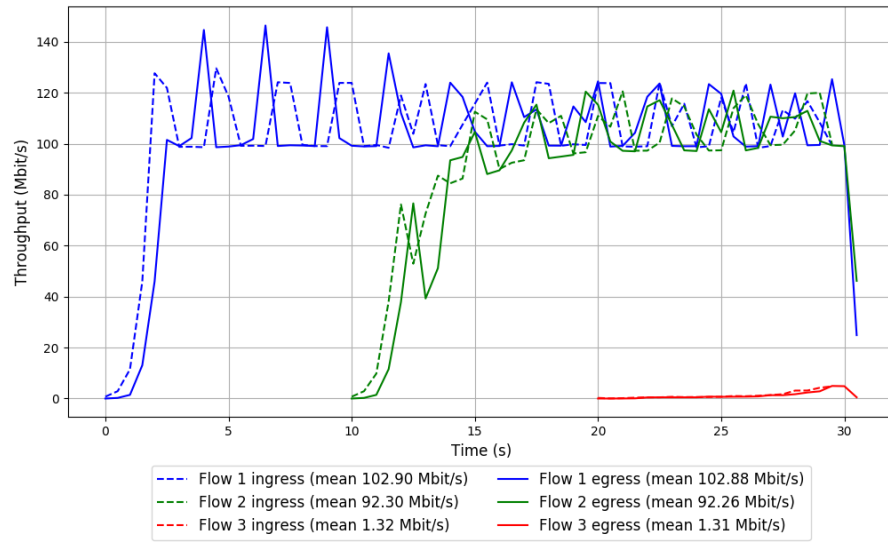
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 117.272 ms

Loss rate: 0.91%

Run 2: Report of TCP Cubic — Data Link

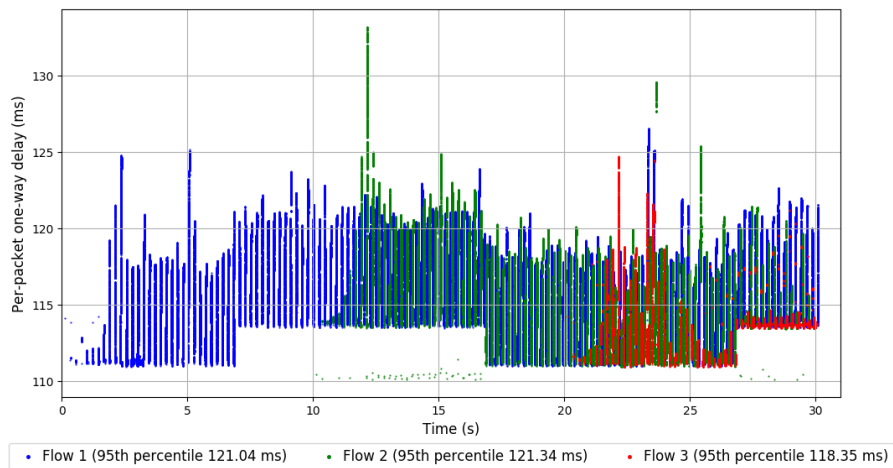
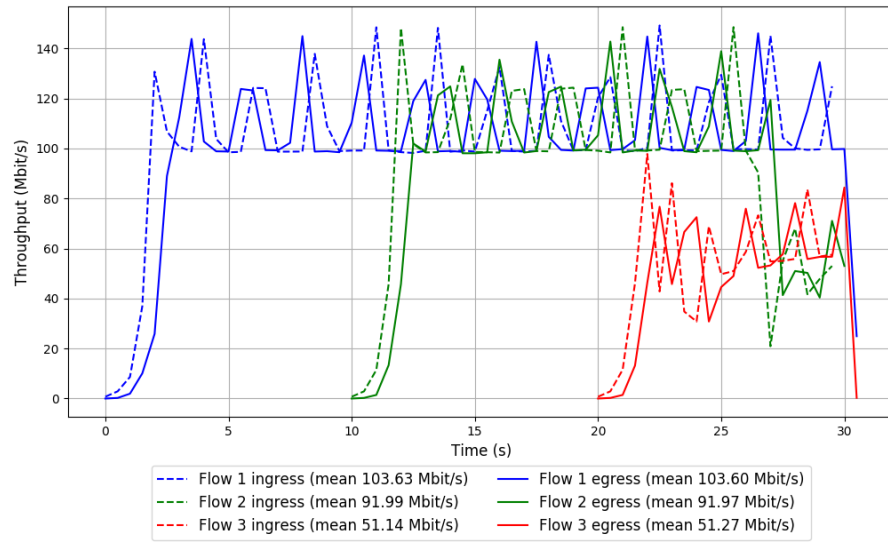


Run 3: Statistics of TCP Cubic

Start at: 2018-06-18 13:48:34
End at: 2018-06-18 13:49:04
Local clock offset: -1.294 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-18 17:08:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 181.51 Mbit/s
95th percentile per-packet one-way delay: 121.047 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 103.60 Mbit/s
95th percentile per-packet one-way delay: 121.038 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 91.97 Mbit/s
95th percentile per-packet one-way delay: 121.341 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.27 Mbit/s
95th percentile per-packet one-way delay: 118.349 ms
Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link

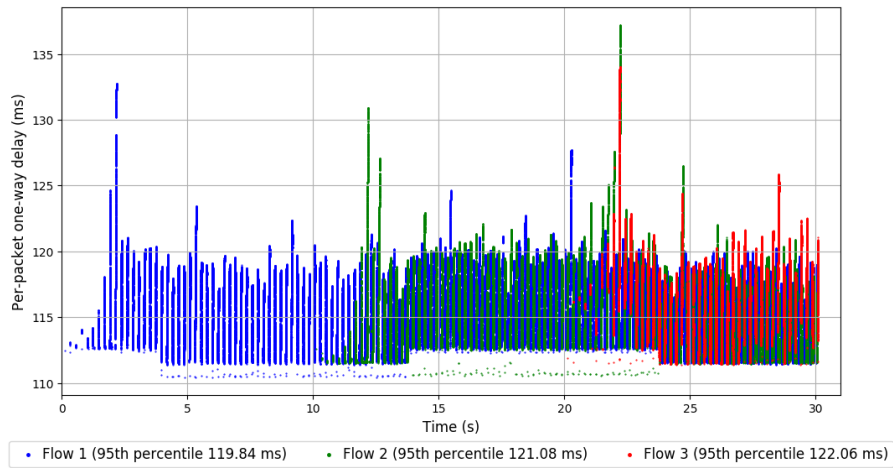
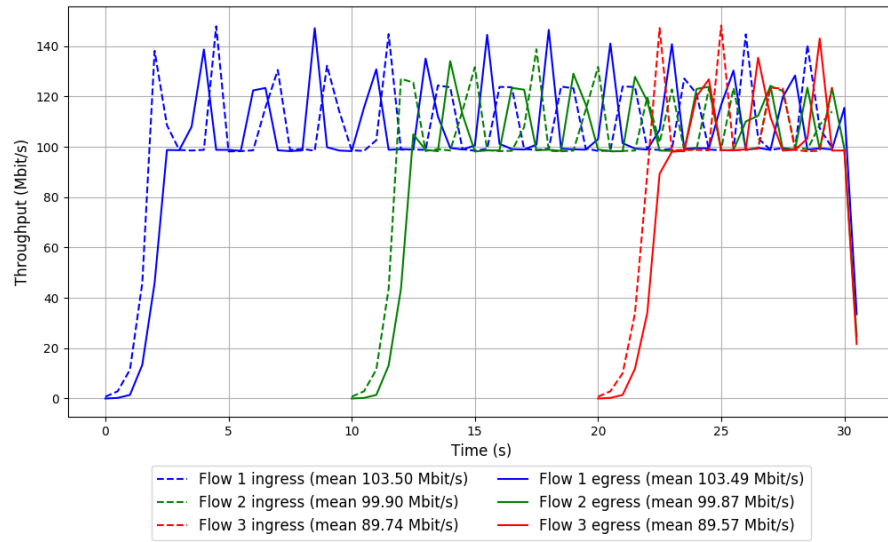


Run 4: Statistics of TCP Cubic

Start at: 2018-06-18 14:12:37
End at: 2018-06-18 14:13:07
Local clock offset: -0.162 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-06-18 17:08:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 199.54 Mbit/s
95th percentile per-packet one-way delay: 120.670 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 103.49 Mbit/s
95th percentile per-packet one-way delay: 119.844 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 99.87 Mbit/s
95th percentile per-packet one-way delay: 121.076 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.57 Mbit/s
95th percentile per-packet one-way delay: 122.055 ms
Loss rate: 0.19%

Run 4: Report of TCP Cubic — Data Link

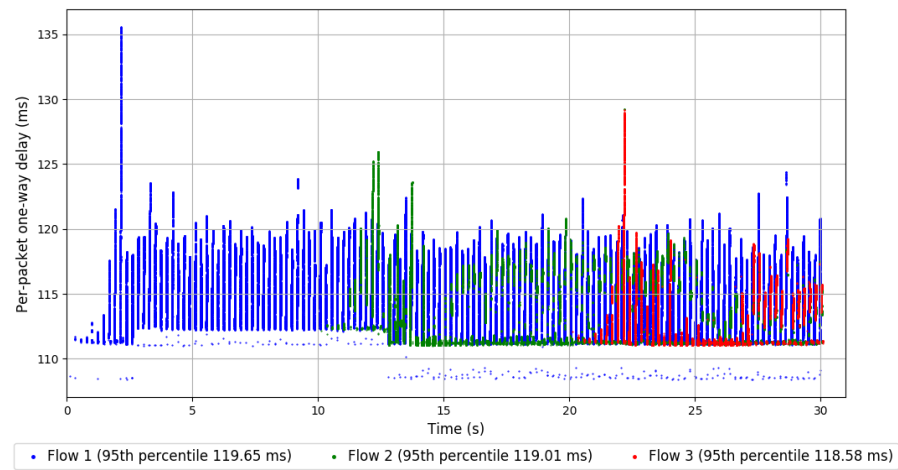
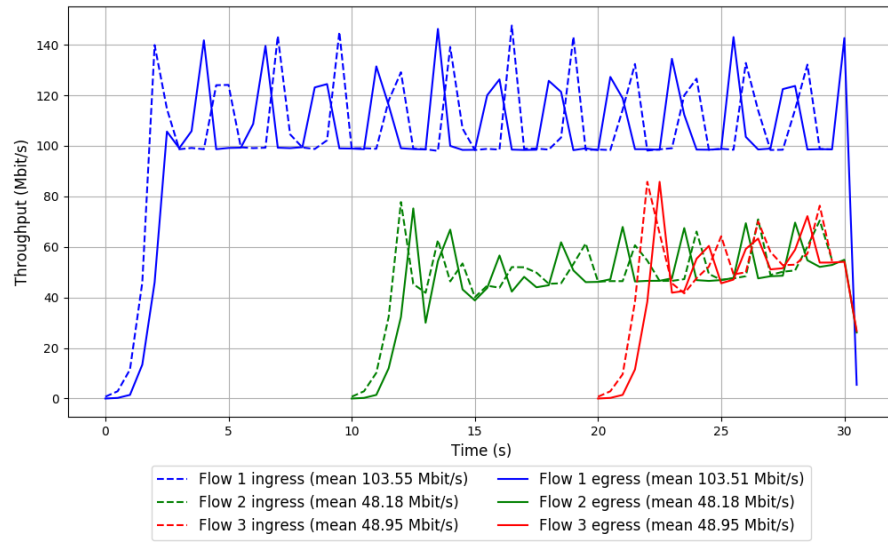


Run 5: Statistics of TCP Cubic

Start at: 2018-06-18 14:37:08
End at: 2018-06-18 14:37:38
Local clock offset: 0.056 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-06-18 17:08:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.54 Mbit/s
95th percentile per-packet one-way delay: 119.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.51 Mbit/s
95th percentile per-packet one-way delay: 119.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.18 Mbit/s
95th percentile per-packet one-way delay: 119.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.95 Mbit/s
95th percentile per-packet one-way delay: 118.585 ms
Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-18 15:01:22

End at: 2018-06-18 15:01:52

Local clock offset: -0.078 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-18 17:08:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.57 Mbit/s

95th percentile per-packet one-way delay: 119.738 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.90 Mbit/s

95th percentile per-packet one-way delay: 118.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 101.26 Mbit/s

95th percentile per-packet one-way delay: 120.689 ms

Loss rate: 0.00%

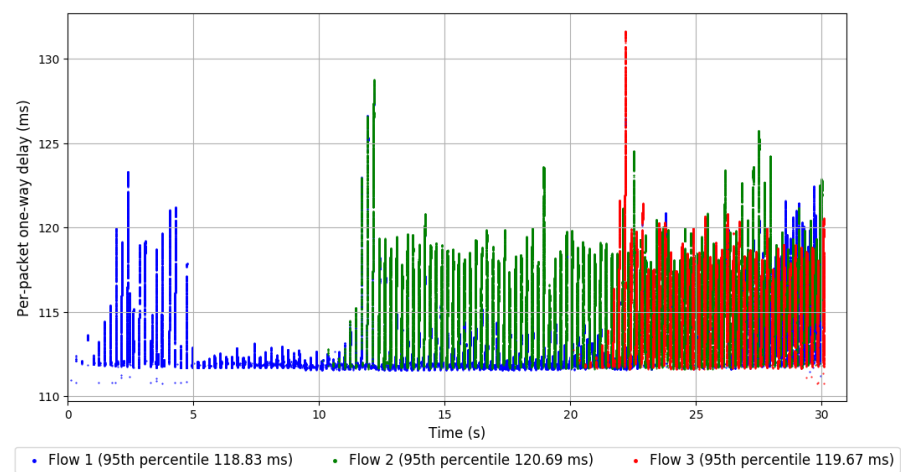
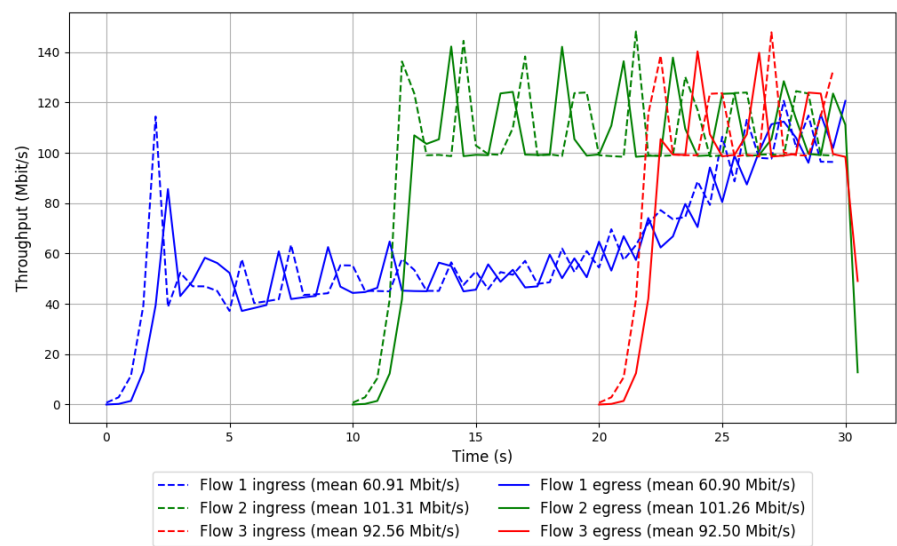
-- Flow 3:

Average throughput: 92.50 Mbit/s

95th percentile per-packet one-way delay: 119.665 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-18 15:25:21

End at: 2018-06-18 15:25:51

Local clock offset: -1.265 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-18 17:08:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 148.27 Mbit/s

95th percentile per-packet one-way delay: 122.789 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 103.27 Mbit/s

95th percentile per-packet one-way delay: 122.931 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 22.62 Mbit/s

95th percentile per-packet one-way delay: 117.884 ms

Loss rate: 0.01%

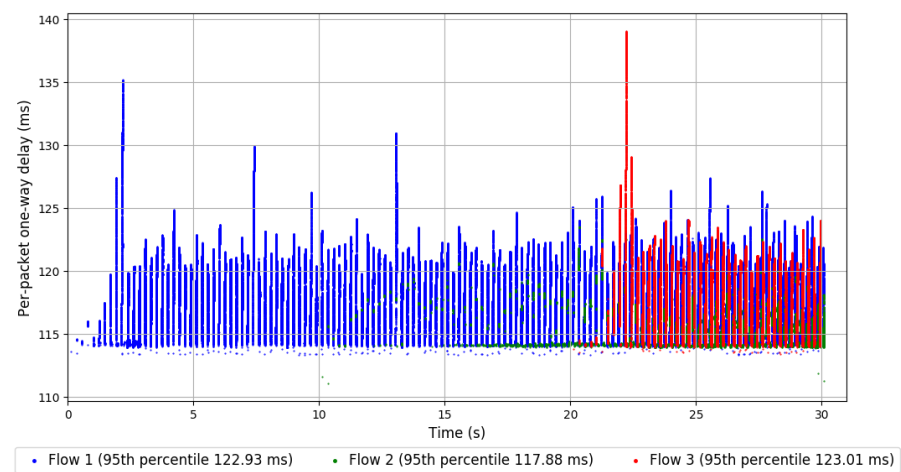
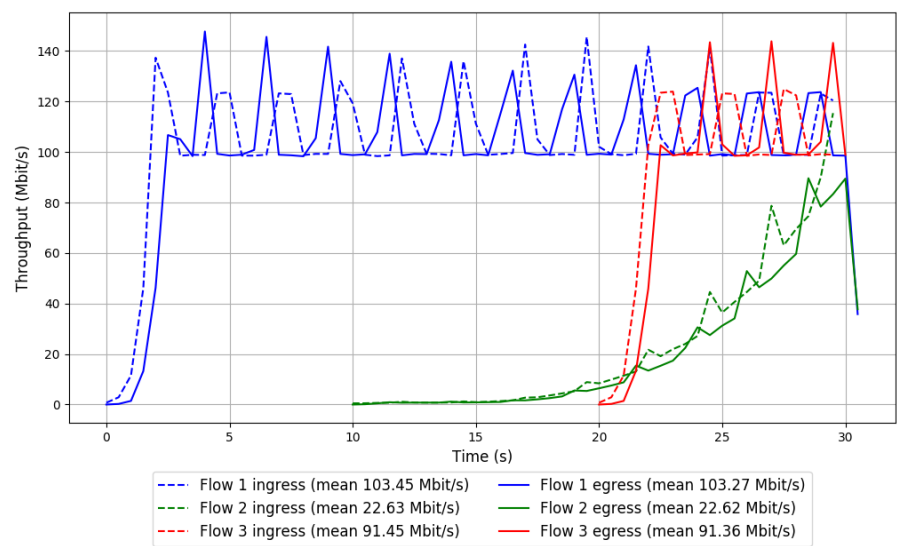
-- Flow 3:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 123.009 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-18 15:48:55

End at: 2018-06-18 15:49:25

Local clock offset: -1.423 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-06-18 17:09:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.00 Mbit/s

95th percentile per-packet one-way delay: 123.105 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.74 Mbit/s

95th percentile per-packet one-way delay: 122.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.89 Mbit/s

95th percentile per-packet one-way delay: 123.631 ms

Loss rate: 0.00%

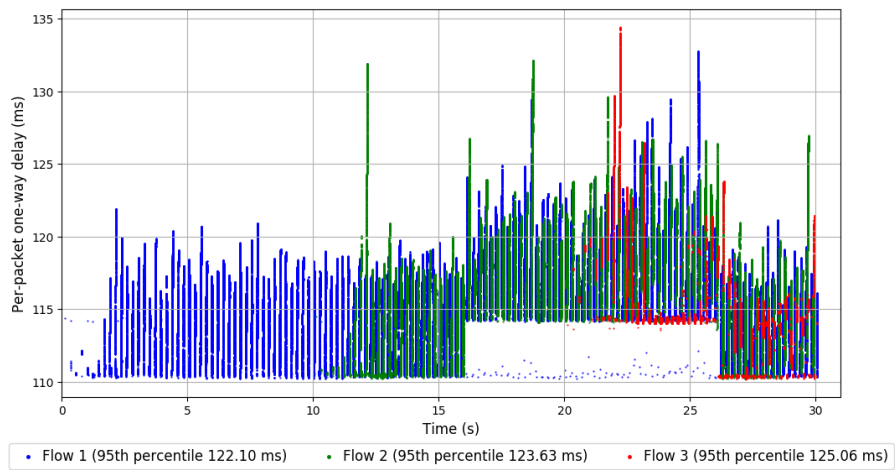
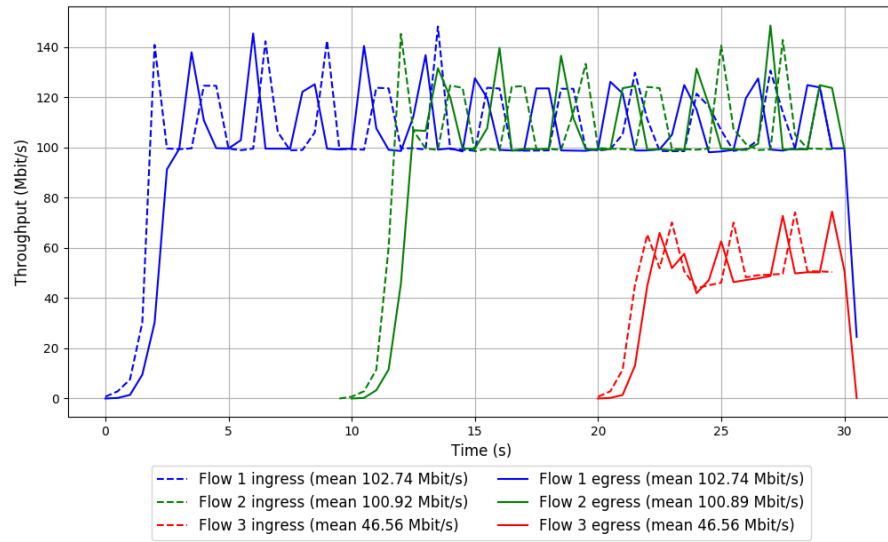
-- Flow 3:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 125.059 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-18 16:12:38

End at: 2018-06-18 16:13:08

Local clock offset: -0.054 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-06-18 17:09:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.66 Mbit/s

95th percentile per-packet one-way delay: 119.432 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 86.50 Mbit/s

95th percentile per-packet one-way delay: 116.827 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 117.453 ms

Loss rate: 0.01%

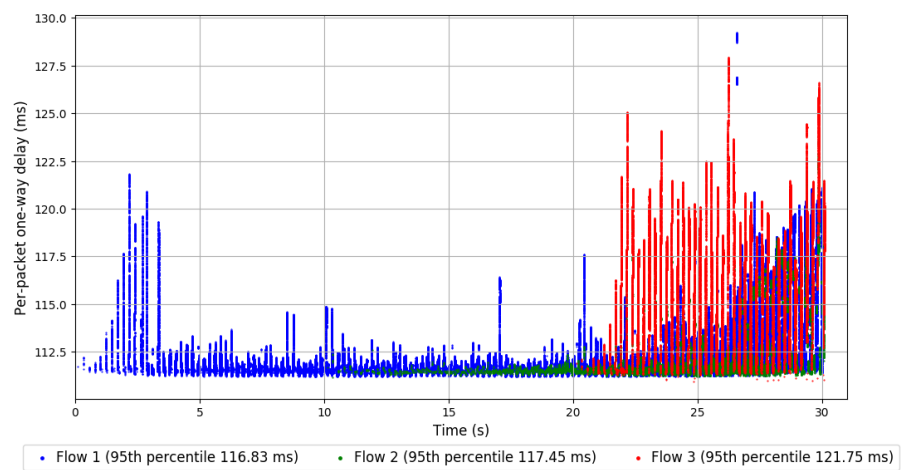
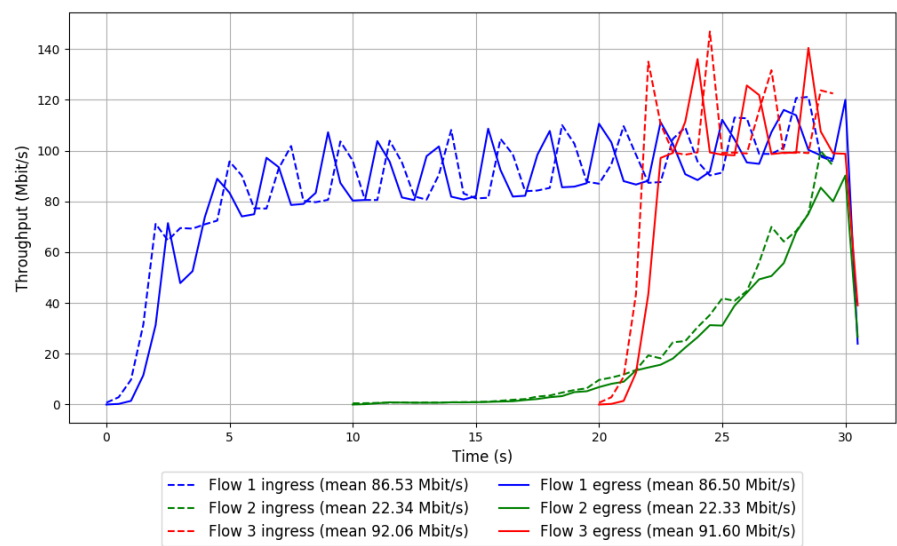
-- Flow 3:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 121.752 ms

Loss rate: 0.52%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-18 16:36:25

End at: 2018-06-18 16:36:55

Local clock offset: -0.257 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2018-06-18 17:09:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.22 Mbit/s

95th percentile per-packet one-way delay: 120.238 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 120.471 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 118.954 ms

Loss rate: 0.00%

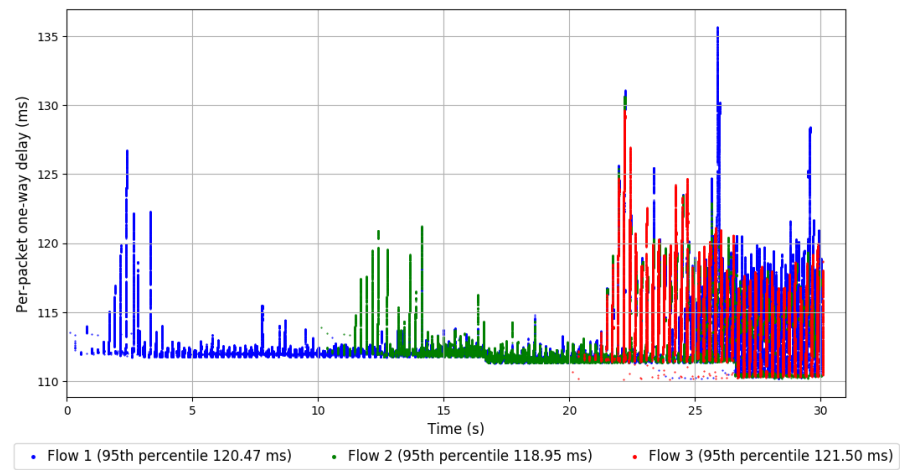
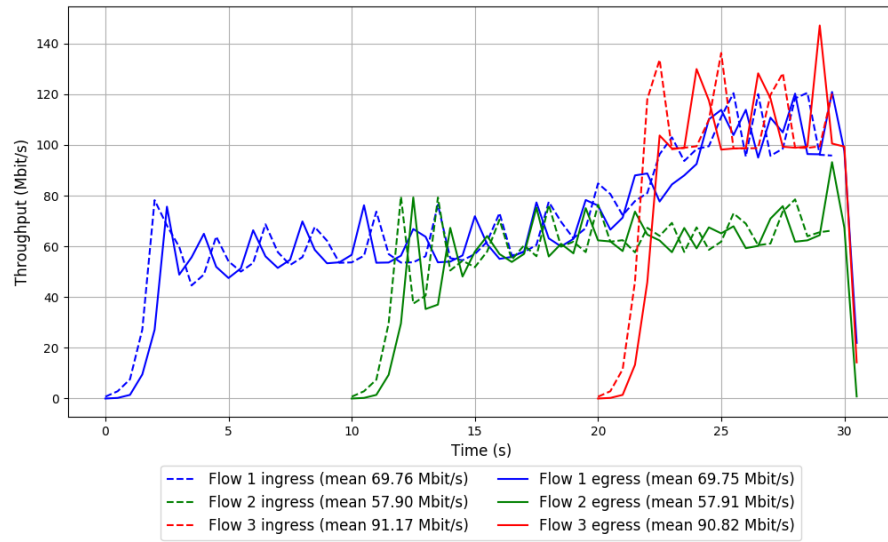
-- Flow 3:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 121.498 ms

Loss rate: 0.37%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-18 12:51:25

End at: 2018-06-18 12:51:55

Local clock offset: -1.309 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-18 17:31:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 1241.02 Mbit/s

95th percentile per-packet one-way delay: 210.145 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 649.14 Mbit/s

95th percentile per-packet one-way delay: 217.839 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 621.02 Mbit/s

95th percentile per-packet one-way delay: 195.884 ms

Loss rate: 1.00%

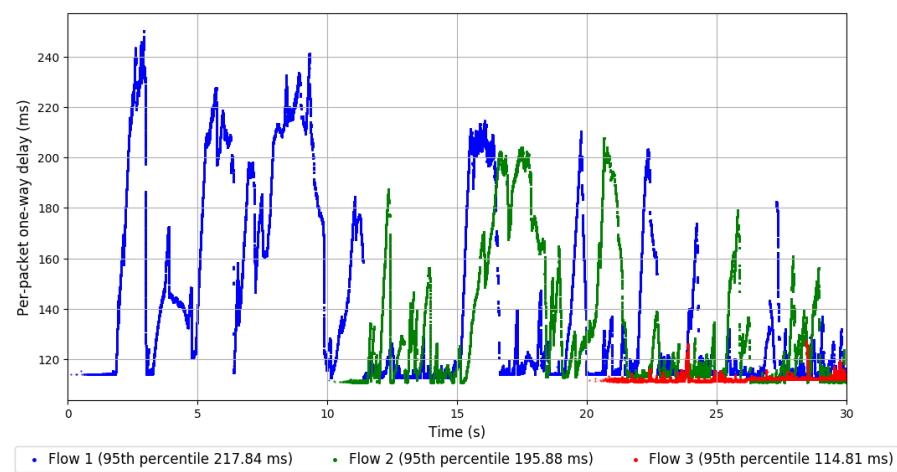
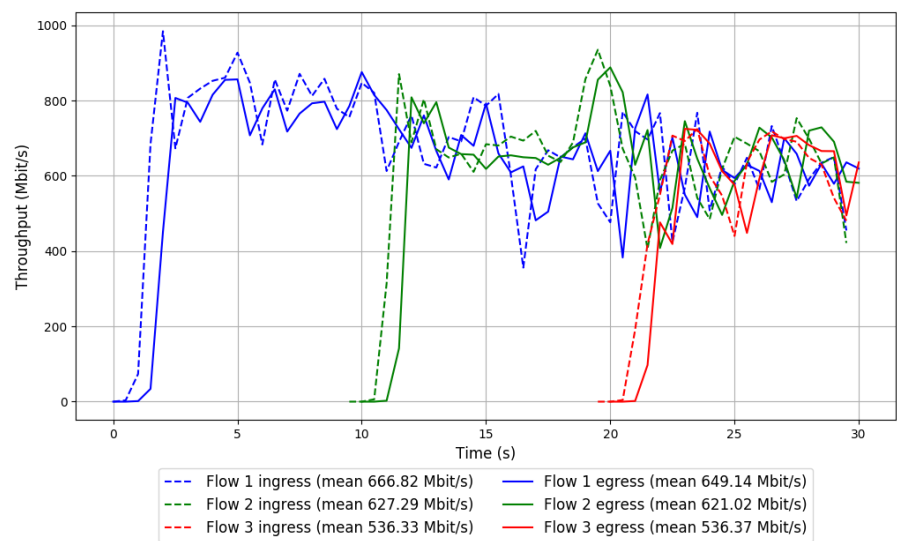
-- Flow 3:

Average throughput: 536.37 Mbit/s

95th percentile per-packet one-way delay: 114.815 ms

Loss rate: 0.00%

Run 1: Report of FillP — Data Link

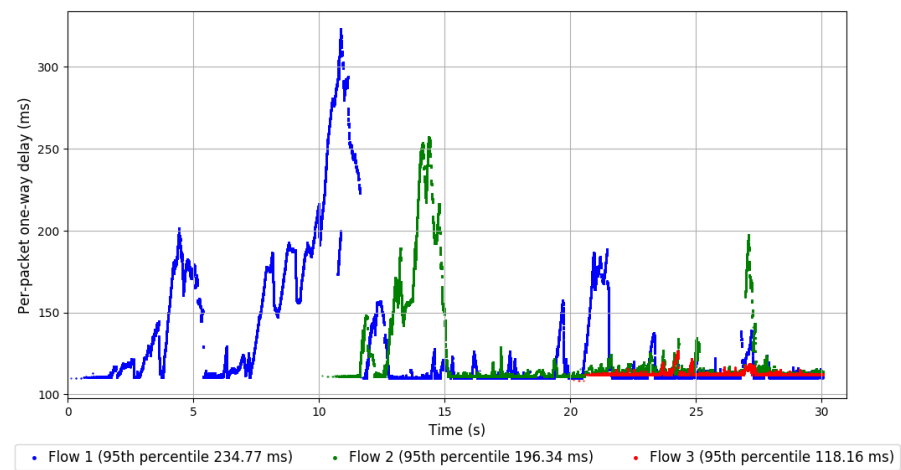
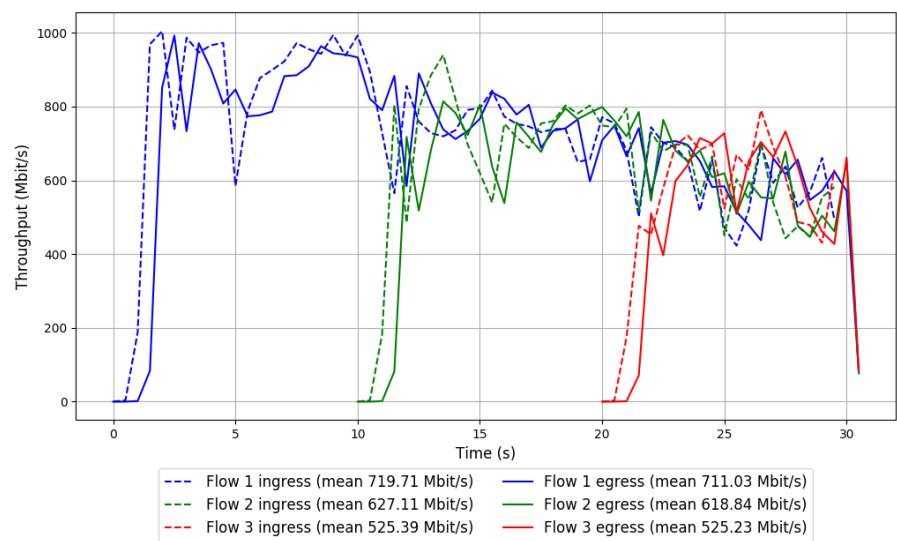


Run 2: Statistics of FillP

Start at: 2018-06-18 13:15:20
End at: 2018-06-18 13:15:50
Local clock offset: 0.009 ms
Remote clock offset: -0.371 ms

Below is generated by plot.py at 2018-06-18 17:32:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 1297.02 Mbit/s
95th percentile per-packet one-way delay: 204.264 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 711.03 Mbit/s
95th percentile per-packet one-way delay: 234.774 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 618.84 Mbit/s
95th percentile per-packet one-way delay: 196.338 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 525.23 Mbit/s
95th percentile per-packet one-way delay: 118.162 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-18 13:39:20

End at: 2018-06-18 13:39:50

Local clock offset: -0.117 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-18 17:32:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 1265.46 Mbit/s

95th percentile per-packet one-way delay: 190.039 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 675.97 Mbit/s

95th percentile per-packet one-way delay: 142.644 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 585.78 Mbit/s

95th percentile per-packet one-way delay: 228.428 ms

Loss rate: 5.21%

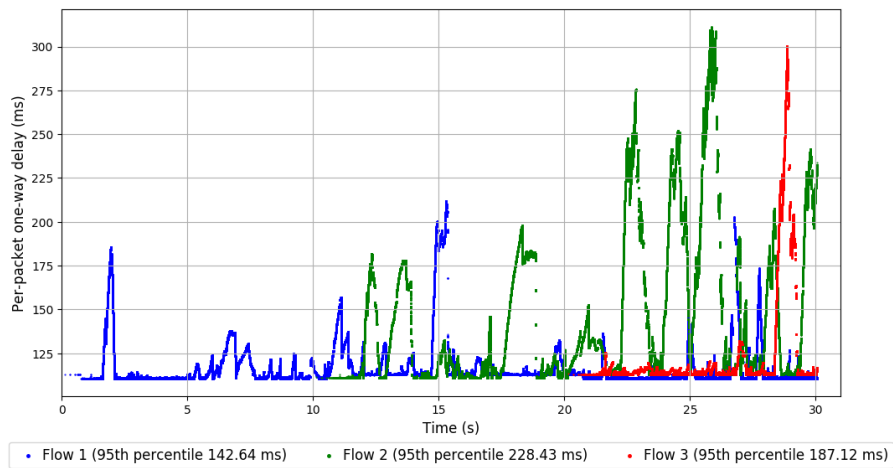
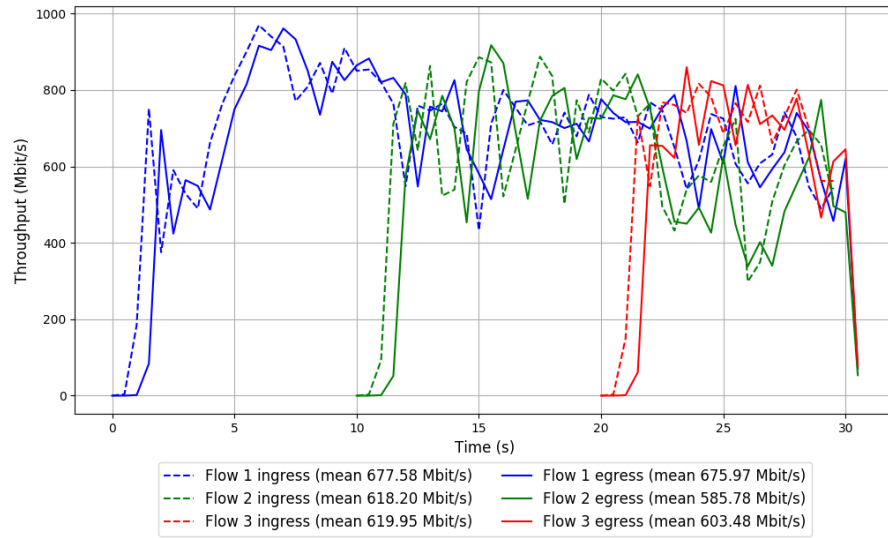
-- Flow 3:

Average throughput: 603.48 Mbit/s

95th percentile per-packet one-way delay: 187.123 ms

Loss rate: 2.67%

Run 3: Report of FillP — Data Link

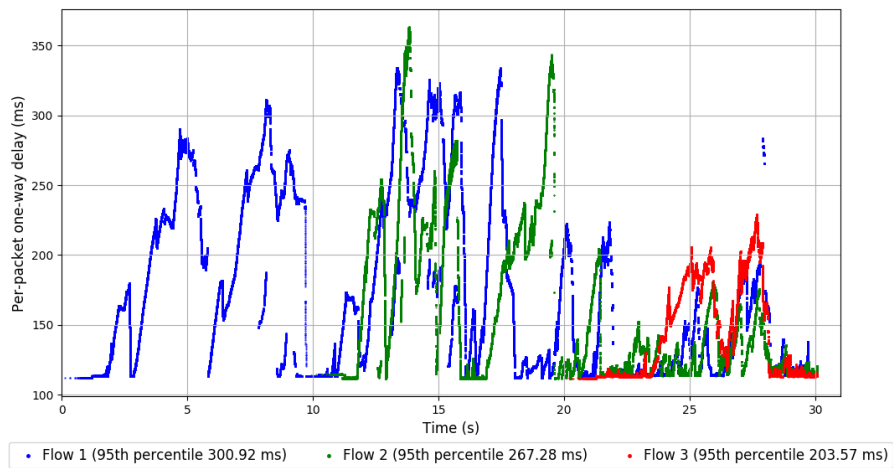
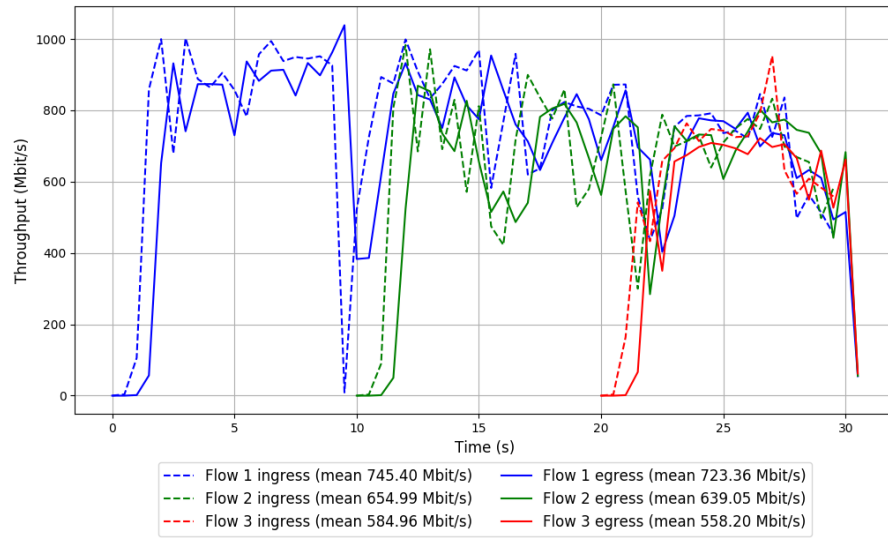


Run 4: Statistics of FillP

Start at: 2018-06-18 14:03:10
End at: 2018-06-18 14:03:40
Local clock offset: -1.107 ms
Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-18 17:33:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 1333.60 Mbit/s
95th percentile per-packet one-way delay: 285.800 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 723.36 Mbit/s
95th percentile per-packet one-way delay: 300.922 ms
Loss rate: 2.95%
-- Flow 2:
Average throughput: 639.05 Mbit/s
95th percentile per-packet one-way delay: 267.280 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 558.20 Mbit/s
95th percentile per-packet one-way delay: 203.566 ms
Loss rate: 4.55%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-18 14:27:49

End at: 2018-06-18 14:28:19

Local clock offset: 0.074 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-06-18 17:33:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 1274.32 Mbit/s

95th percentile per-packet one-way delay: 273.775 ms

Loss rate: 3.25%

-- Flow 1:

Average throughput: 707.34 Mbit/s

95th percentile per-packet one-way delay: 291.623 ms

Loss rate: 2.40%

-- Flow 2:

Average throughput: 589.55 Mbit/s

95th percentile per-packet one-way delay: 204.016 ms

Loss rate: 4.57%

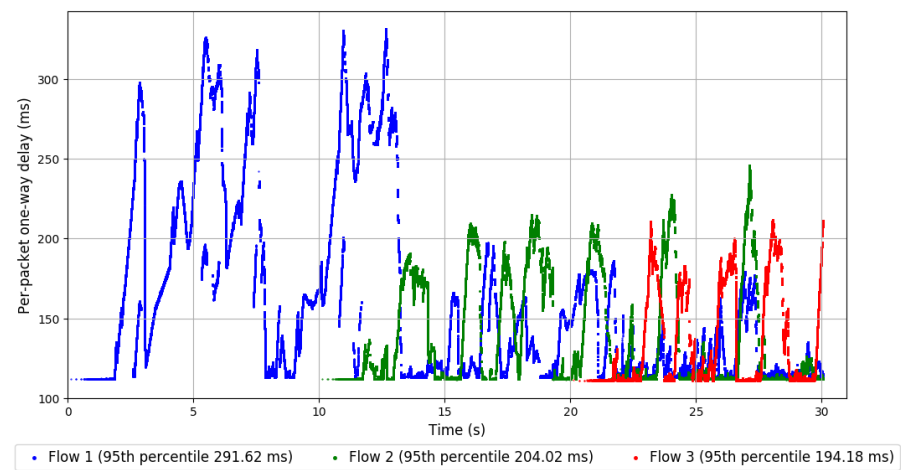
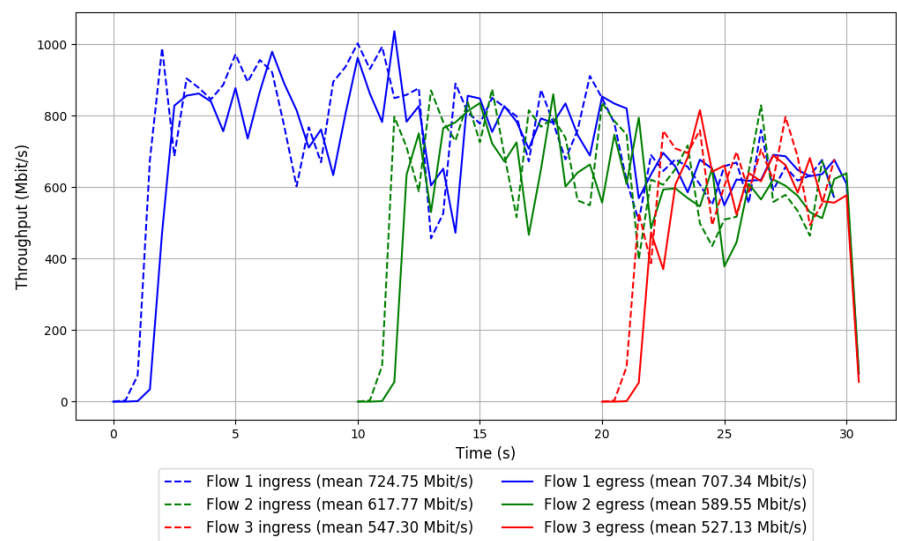
-- Flow 3:

Average throughput: 527.13 Mbit/s

95th percentile per-packet one-way delay: 194.176 ms

Loss rate: 3.68%

Run 5: Report of FillP — Data Link

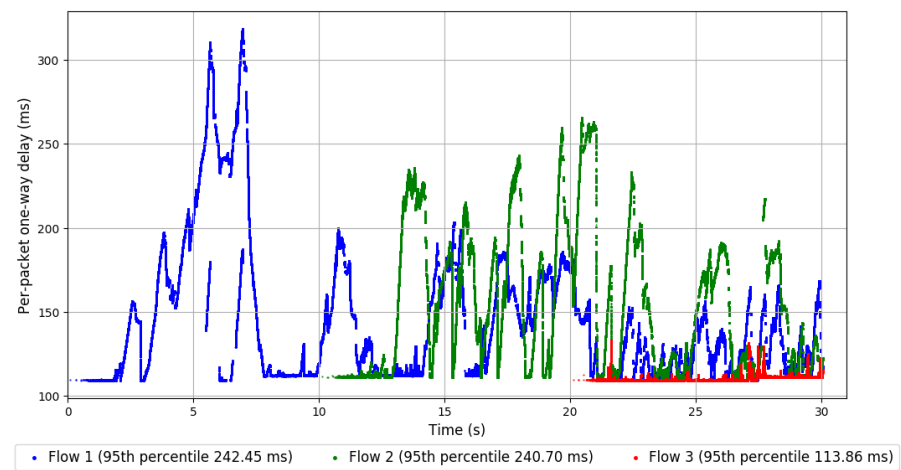
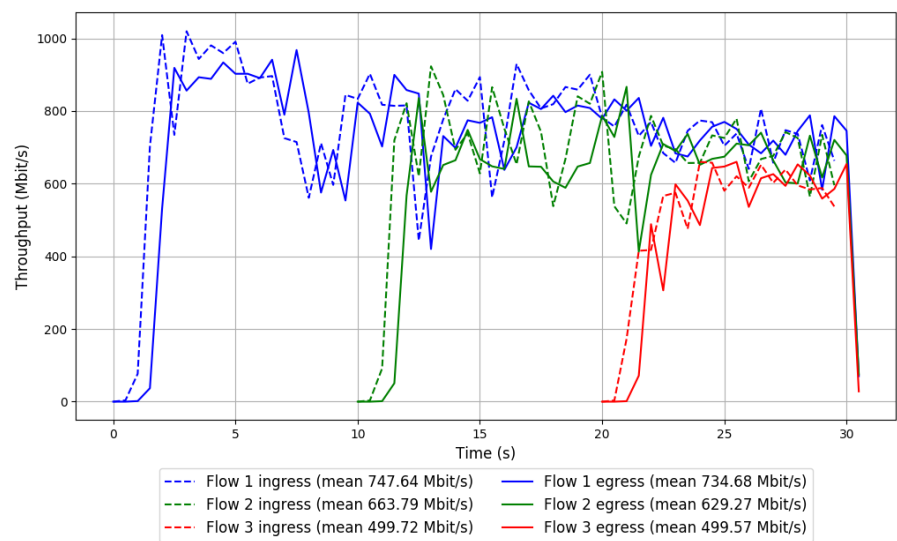


Run 6: Statistics of FillP

Start at: 2018-06-18 14:51:54
End at: 2018-06-18 14:52:24
Local clock offset: -0.208 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2018-06-18 17:33:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 1319.22 Mbit/s
95th percentile per-packet one-way delay: 240.494 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 734.68 Mbit/s
95th percentile per-packet one-way delay: 242.453 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 629.27 Mbit/s
95th percentile per-packet one-way delay: 240.698 ms
Loss rate: 5.21%
-- Flow 3:
Average throughput: 499.57 Mbit/s
95th percentile per-packet one-way delay: 113.863 ms
Loss rate: 0.02%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-18 15:16:02

End at: 2018-06-18 15:16:32

Local clock offset: 0.123 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-18 17:34:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 1313.20 Mbit/s

95th percentile per-packet one-way delay: 247.305 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 721.80 Mbit/s

95th percentile per-packet one-way delay: 268.052 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 598.39 Mbit/s

95th percentile per-packet one-way delay: 220.376 ms

Loss rate: 4.33%

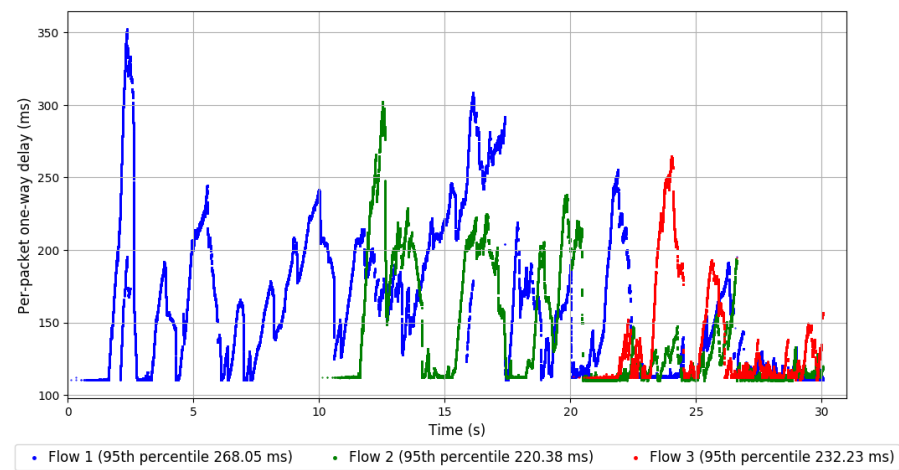
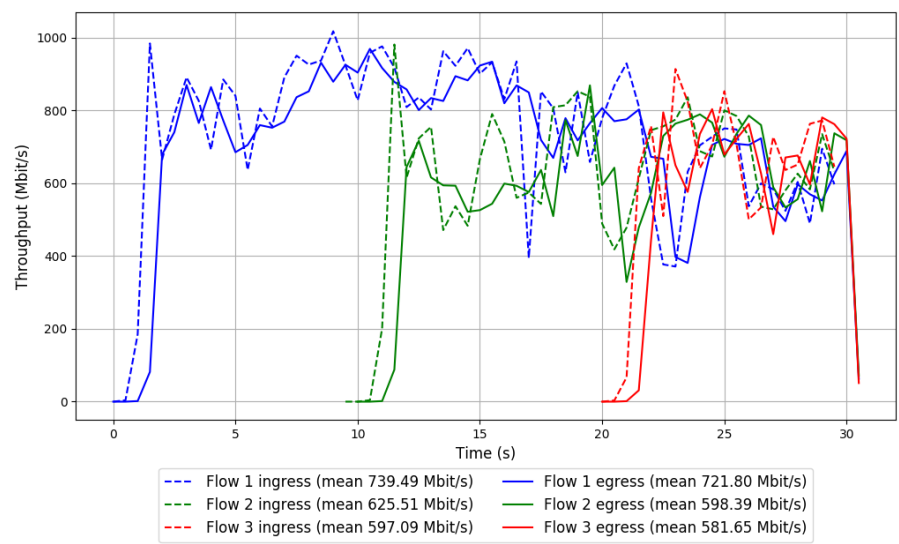
-- Flow 3:

Average throughput: 581.65 Mbit/s

95th percentile per-packet one-way delay: 232.232 ms

Loss rate: 2.58%

Run 7: Report of FillP — Data Link

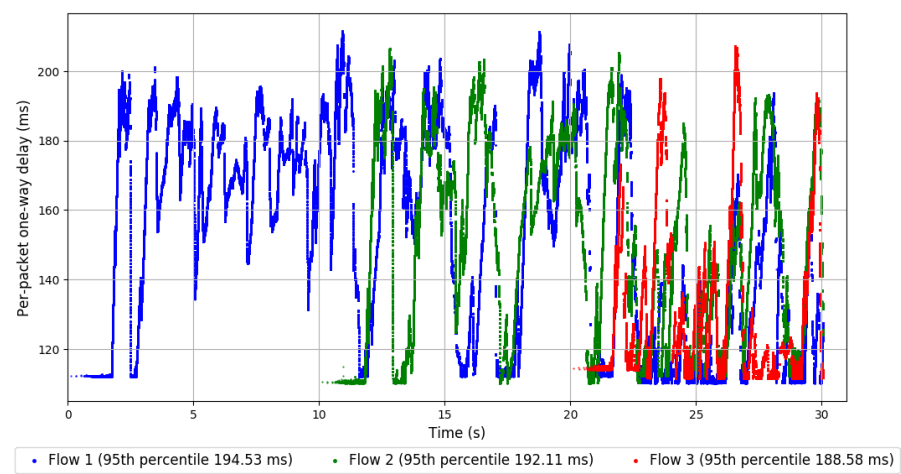
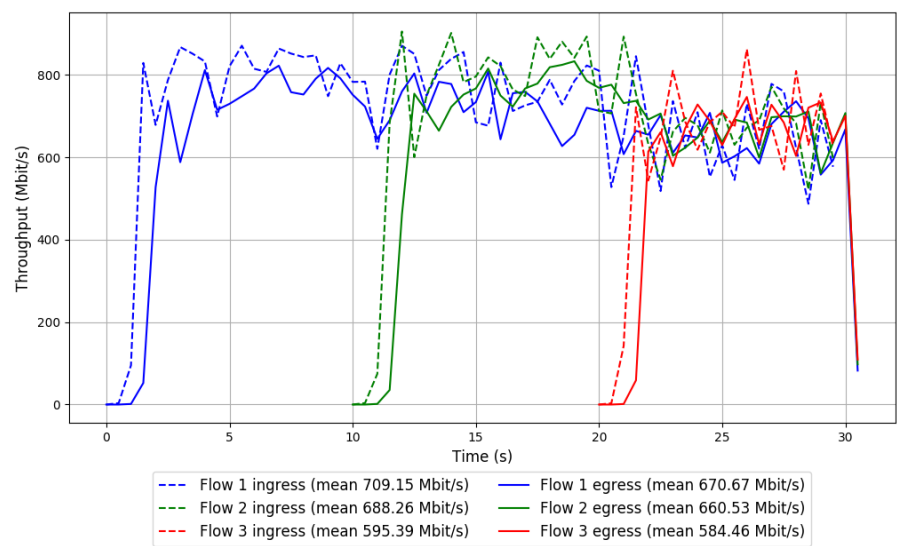


Run 8: Statistics of FillP

Start at: 2018-06-18 15:39:48
End at: 2018-06-18 15:40:18
Local clock offset: 0.258 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-06-18 17:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1304.59 Mbit/s
95th percentile per-packet one-way delay: 193.175 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 670.67 Mbit/s
95th percentile per-packet one-way delay: 194.531 ms
Loss rate: 5.42%
-- Flow 2:
Average throughput: 660.53 Mbit/s
95th percentile per-packet one-way delay: 192.106 ms
Loss rate: 4.02%
-- Flow 3:
Average throughput: 584.46 Mbit/s
95th percentile per-packet one-way delay: 188.581 ms
Loss rate: 1.86%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-18 16:03:25

End at: 2018-06-18 16:03:55

Local clock offset: -1.238 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 1239.67 Mbit/s

95th percentile per-packet one-way delay: 210.699 ms

Loss rate: 3.01%

-- Flow 1:

Average throughput: 688.47 Mbit/s

95th percentile per-packet one-way delay: 224.134 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 555.38 Mbit/s

95th percentile per-packet one-way delay: 203.819 ms

Loss rate: 2.29%

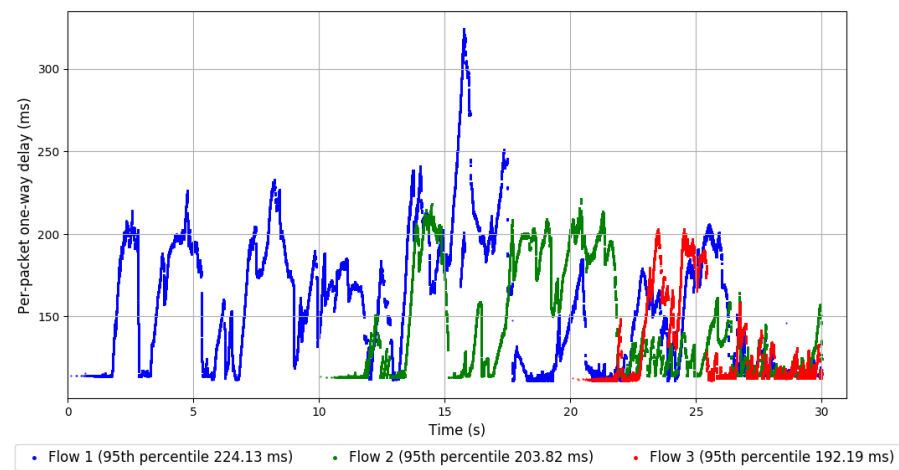
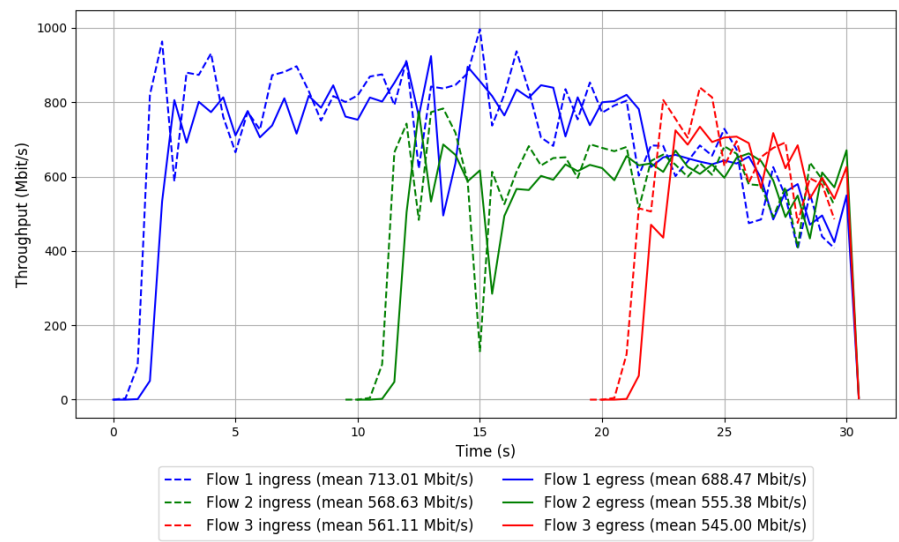
-- Flow 3:

Average throughput: 545.00 Mbit/s

95th percentile per-packet one-way delay: 192.185 ms

Loss rate: 2.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-18 16:27:06

End at: 2018-06-18 16:27:36

Local clock offset: 0.072 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 1028.90 Mbit/s

95th percentile per-packet one-way delay: 314.327 ms

Loss rate: 7.23%

-- Flow 1:

Average throughput: 530.24 Mbit/s

95th percentile per-packet one-way delay: 320.230 ms

Loss rate: 8.13%

-- Flow 2:

Average throughput: 482.77 Mbit/s

95th percentile per-packet one-way delay: 332.086 ms

Loss rate: 4.37%

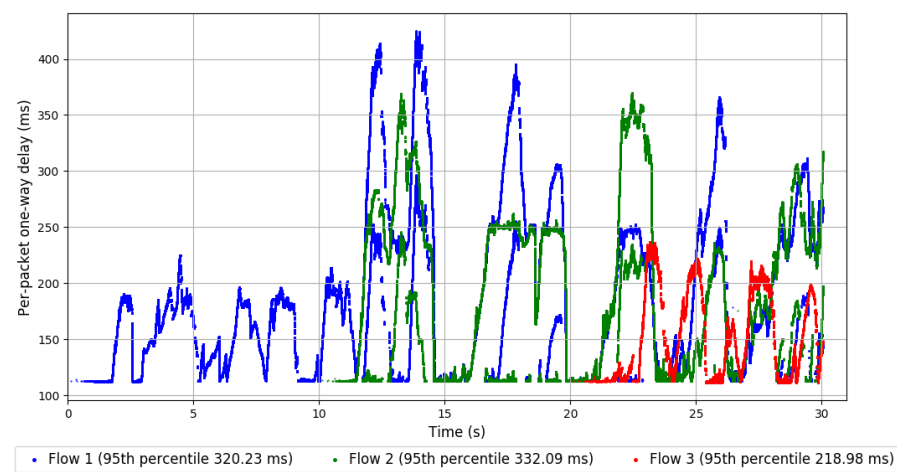
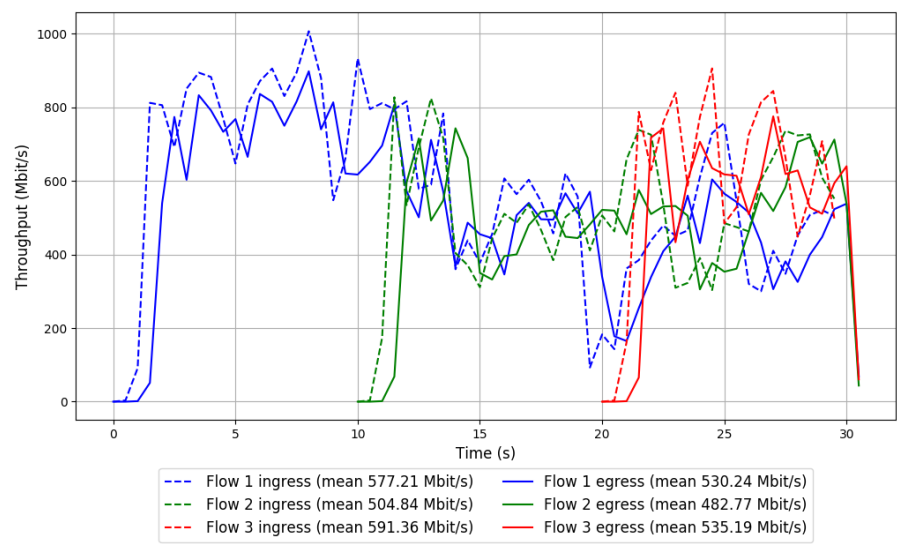
-- Flow 3:

Average throughput: 535.19 Mbit/s

95th percentile per-packet one-way delay: 218.982 ms

Loss rate: 9.48%

Run 10: Report of FillP — Data Link

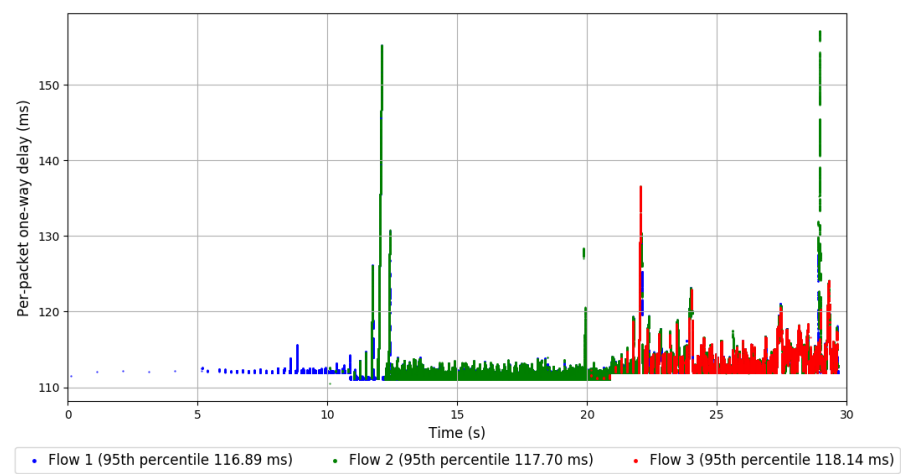
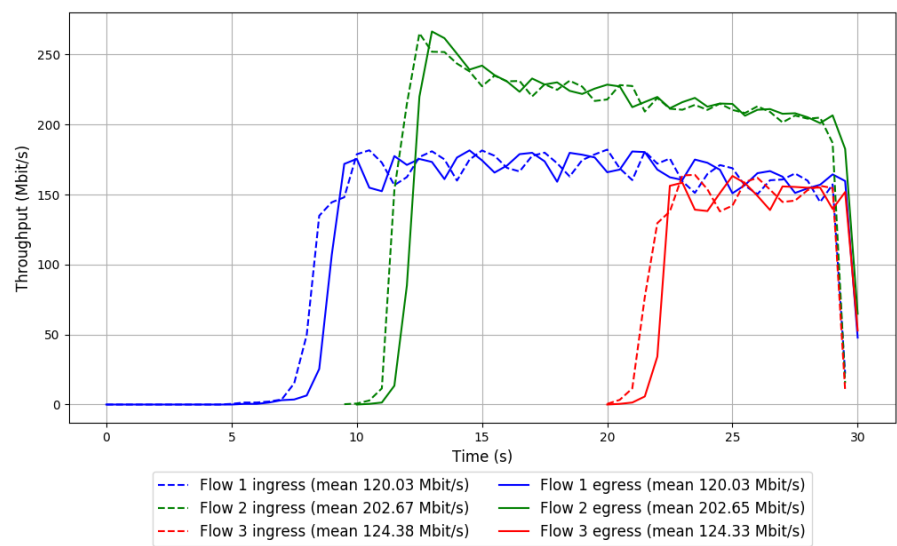


```
Run 1: Statistics of Indigo

Start at: 2018-06-18 12:54:50
End at: 2018-06-18 12:55:20
Local clock offset: -0.053 ms
Remote clock offset: 0.466 ms

# Below is generated by plot.py at 2018-06-18 17:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.14 Mbit/s
95th percentile per-packet one-way delay: 117.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 120.03 Mbit/s
95th percentile per-packet one-way delay: 116.888 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.65 Mbit/s
95th percentile per-packet one-way delay: 117.698 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.33 Mbit/s
95th percentile per-packet one-way delay: 118.143 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-18 13:18:48

End at: 2018-06-18 13:19:18

Local clock offset: -0.124 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.09 Mbit/s

95th percentile per-packet one-way delay: 118.761 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 150.92 Mbit/s

95th percentile per-packet one-way delay: 117.572 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 205.99 Mbit/s

95th percentile per-packet one-way delay: 119.292 ms

Loss rate: 0.02%

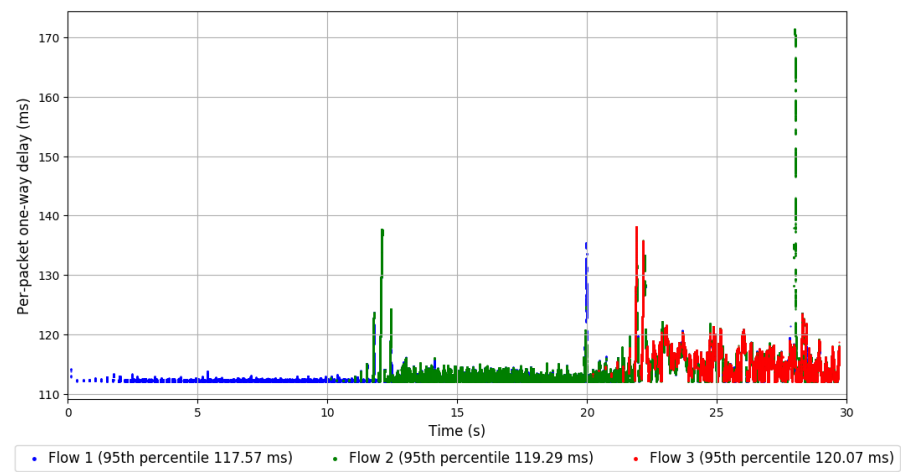
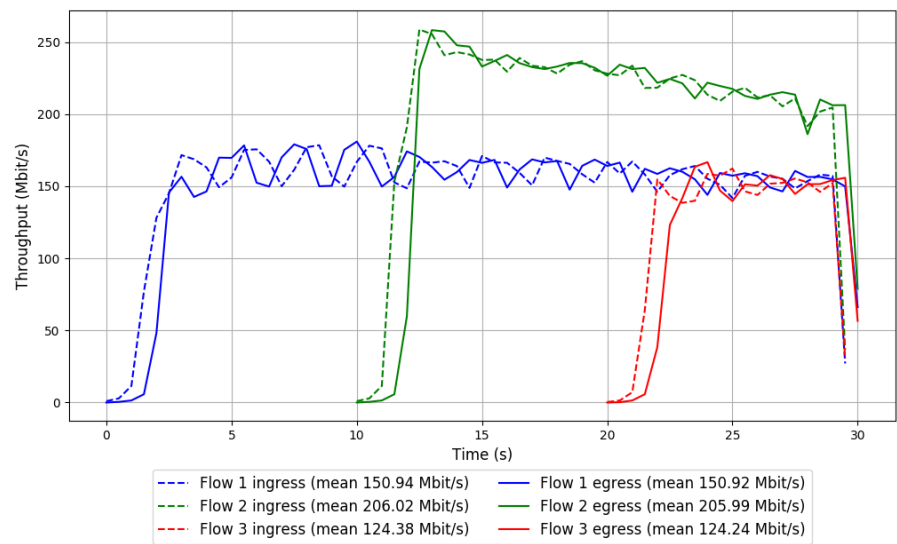
-- Flow 3:

Average throughput: 124.24 Mbit/s

95th percentile per-packet one-way delay: 120.071 ms

Loss rate: 0.10%

Run 2: Report of Indigo — Data Link

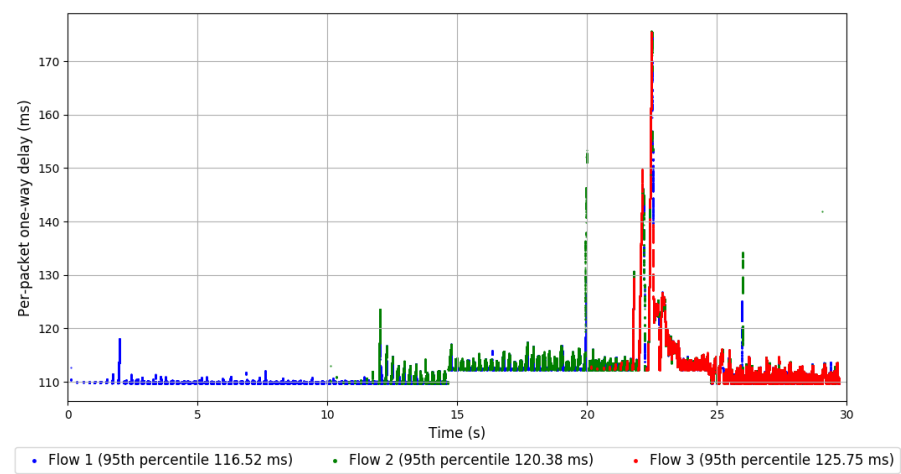
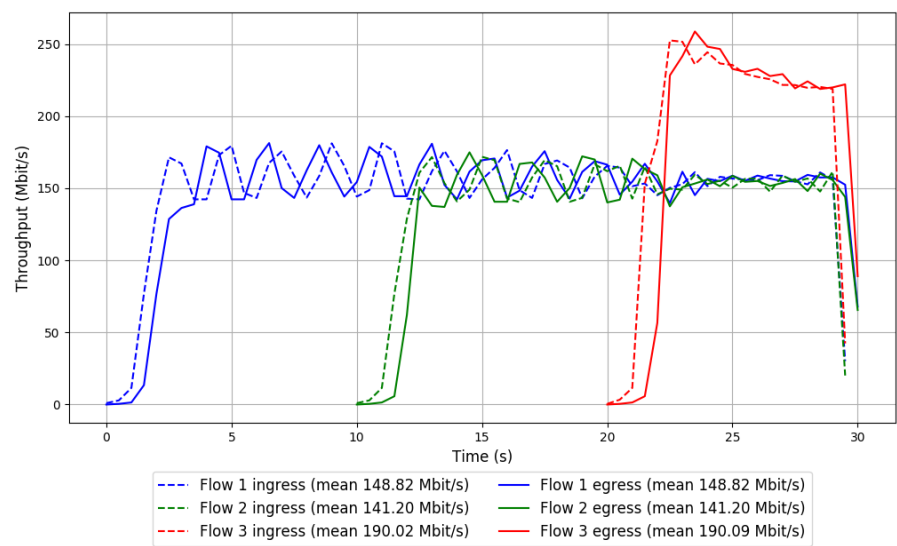


Run 3: Statistics of Indigo

Start at: 2018-06-18 13:42:46
End at: 2018-06-18 13:43:16
Local clock offset: -0.113 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-18 17:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 303.49 Mbit/s
95th percentile per-packet one-way delay: 121.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.82 Mbit/s
95th percentile per-packet one-way delay: 116.521 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.20 Mbit/s
95th percentile per-packet one-way delay: 120.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 190.09 Mbit/s
95th percentile per-packet one-way delay: 125.753 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-18 14:06:36

End at: 2018-06-18 14:07:06

Local clock offset: -1.22 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.58 Mbit/s

95th percentile per-packet one-way delay: 117.476 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 210.56 Mbit/s

95th percentile per-packet one-way delay: 116.953 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.02 Mbit/s

95th percentile per-packet one-way delay: 118.572 ms

Loss rate: 0.00%

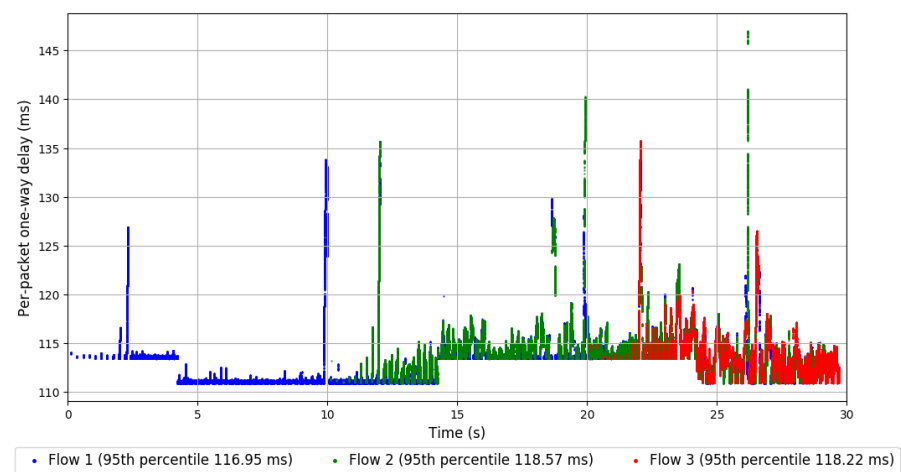
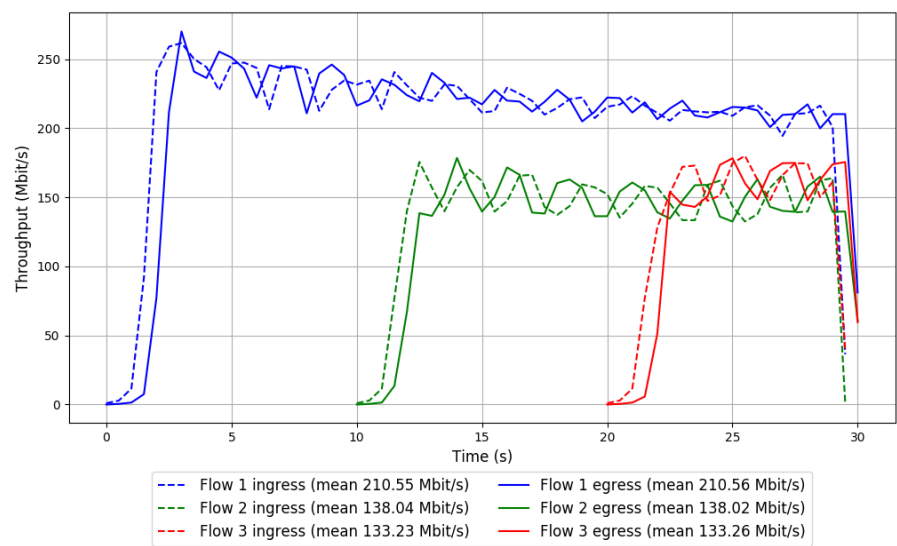
-- Flow 3:

Average throughput: 133.26 Mbit/s

95th percentile per-packet one-way delay: 118.219 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-18 14:31:13

End at: 2018-06-18 14:31:43

Local clock offset: 0.139 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.04 Mbit/s

95th percentile per-packet one-way delay: 116.316 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 146.26 Mbit/s

95th percentile per-packet one-way delay: 115.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.69 Mbit/s

95th percentile per-packet one-way delay: 117.234 ms

Loss rate: 0.00%

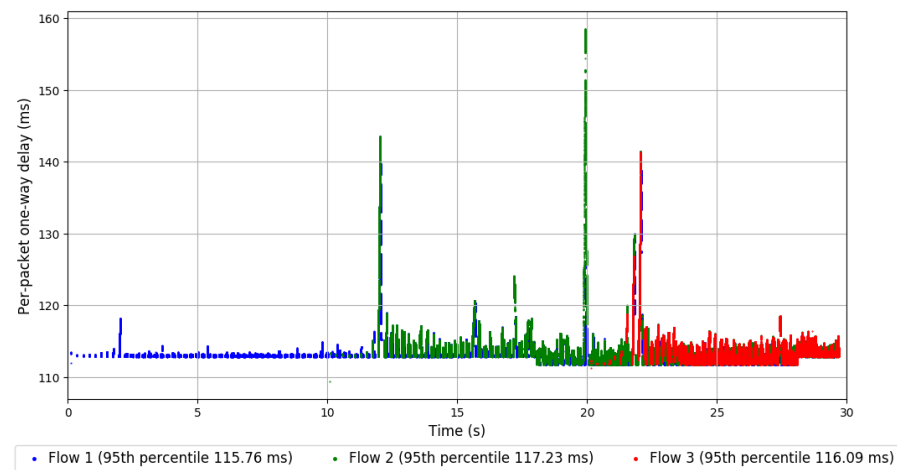
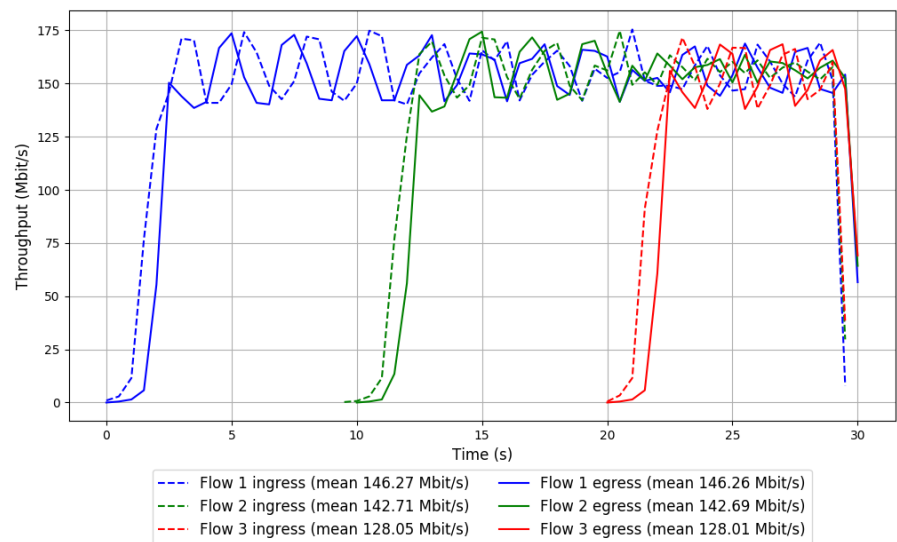
-- Flow 3:

Average throughput: 128.01 Mbit/s

95th percentile per-packet one-way delay: 116.089 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-18 14:55:20

End at: 2018-06-18 14:55:50

Local clock offset: 0.263 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.07 Mbit/s

95th percentile per-packet one-way delay: 114.886 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 147.24 Mbit/s

95th percentile per-packet one-way delay: 114.336 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 141.70 Mbit/s

95th percentile per-packet one-way delay: 115.056 ms

Loss rate: 0.00%

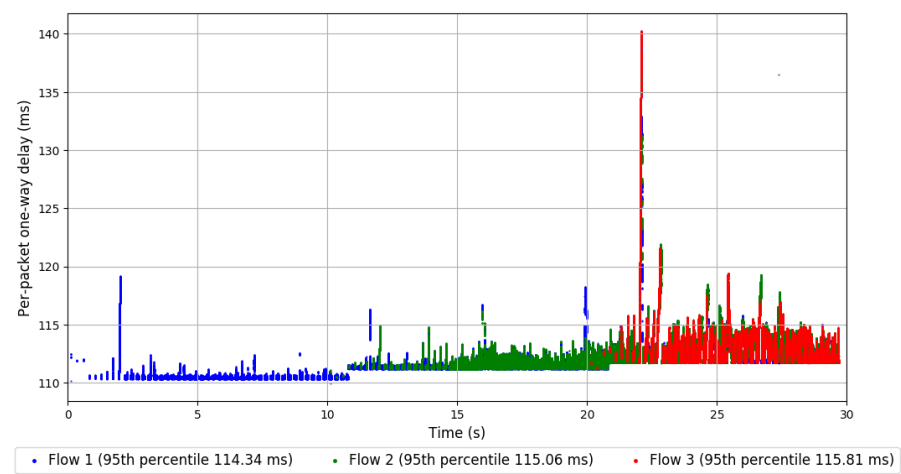
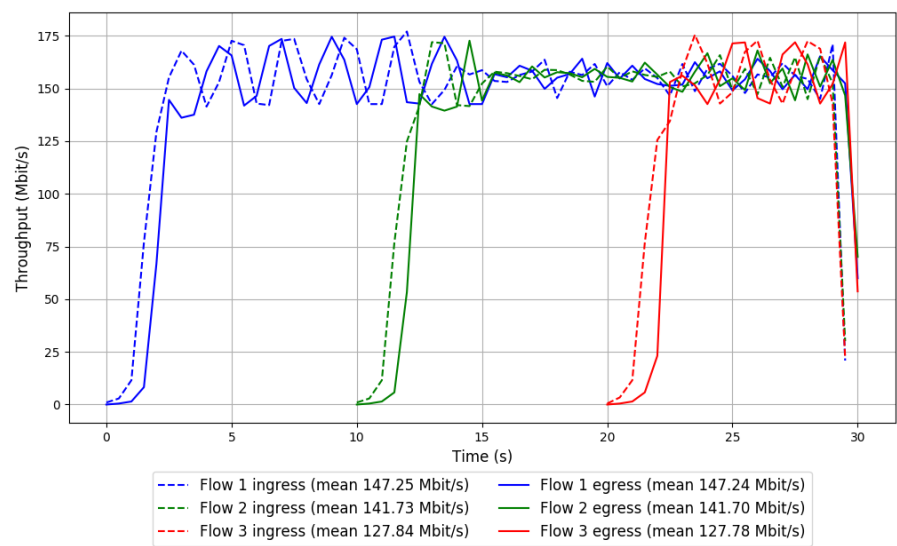
-- Flow 3:

Average throughput: 127.78 Mbit/s

95th percentile per-packet one-way delay: 115.812 ms

Loss rate: 0.06%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-18 15:19:28

End at: 2018-06-18 15:19:58

Local clock offset: 0.063 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.53 Mbit/s

95th percentile per-packet one-way delay: 117.373 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.54 Mbit/s

95th percentile per-packet one-way delay: 115.958 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 208.61 Mbit/s

95th percentile per-packet one-way delay: 116.939 ms

Loss rate: 0.00%

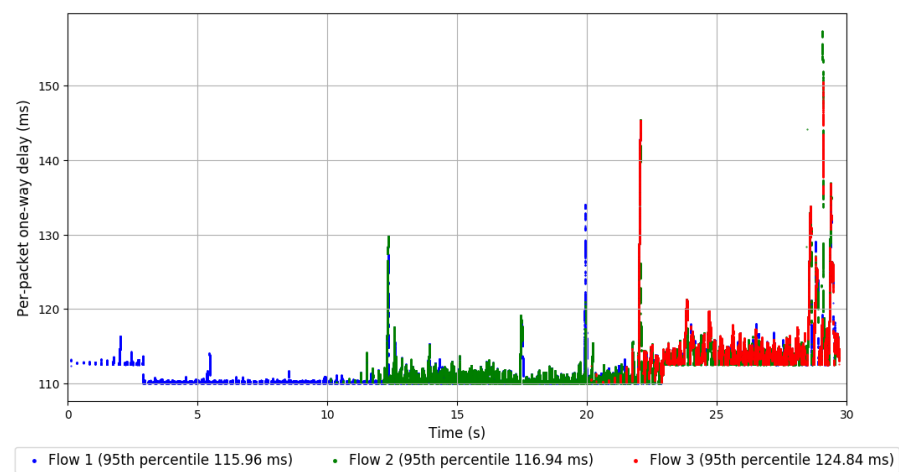
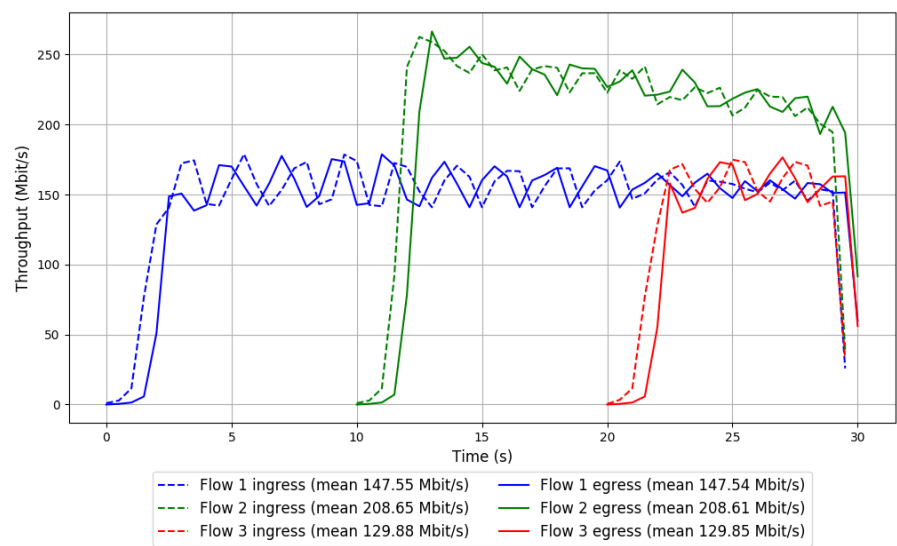
-- Flow 3:

Average throughput: 129.85 Mbit/s

95th percentile per-packet one-way delay: 124.843 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-18 15:43:15

End at: 2018-06-18 15:43:45

Local clock offset: 0.031 ms

Remote clock offset: -0.34 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.40 Mbit/s

95th percentile per-packet one-way delay: 112.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 145.01 Mbit/s

95th percentile per-packet one-way delay: 112.329 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.36 Mbit/s

95th percentile per-packet one-way delay: 113.179 ms

Loss rate: 0.00%

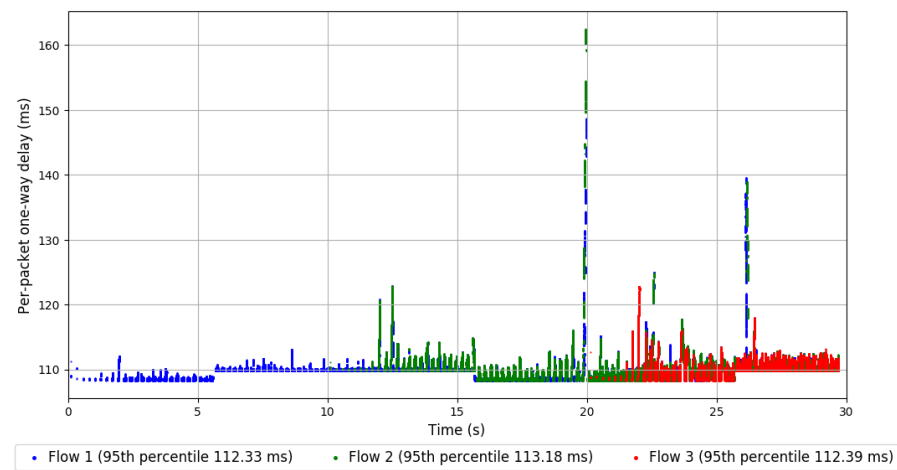
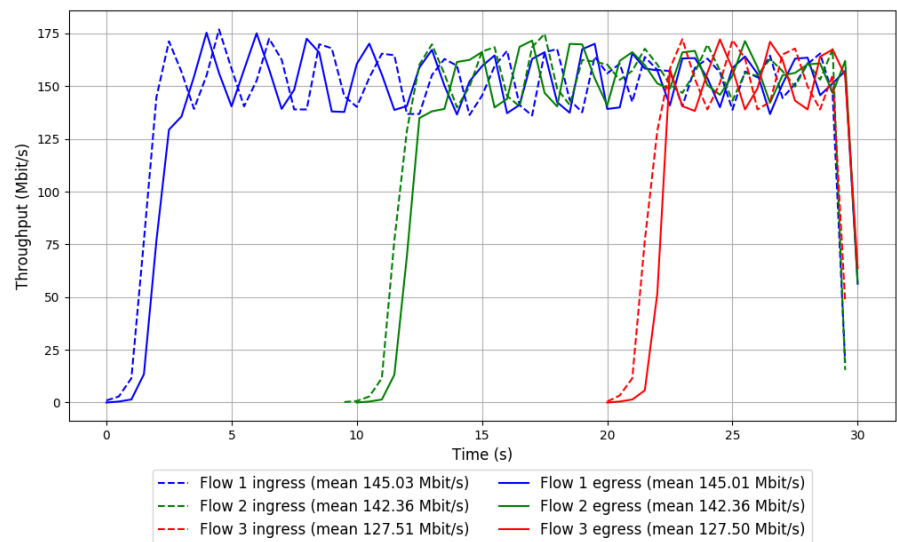
-- Flow 3:

Average throughput: 127.50 Mbit/s

95th percentile per-packet one-way delay: 112.391 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

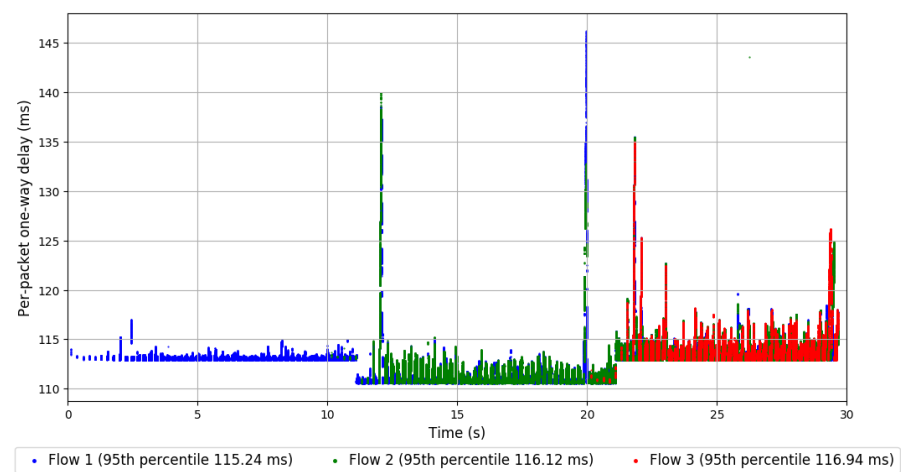
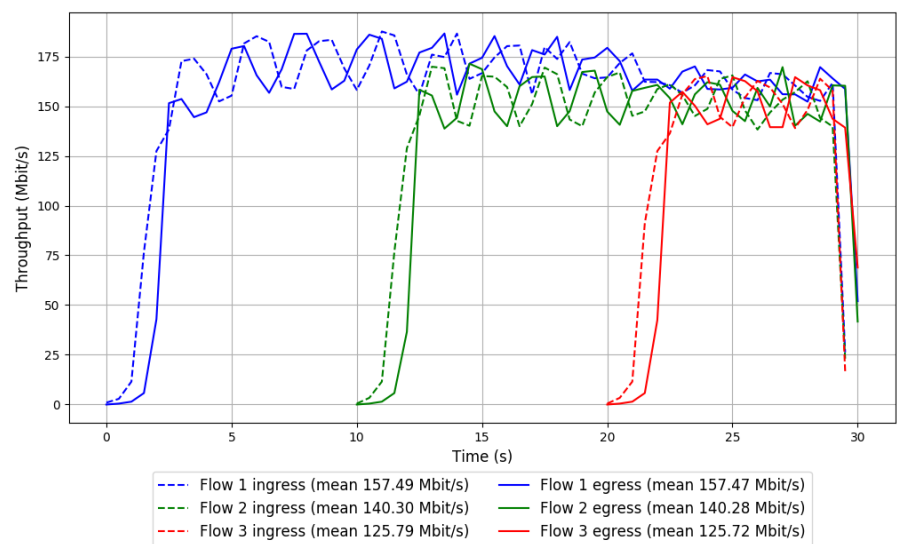


Run 9: Statistics of Indigo

Start at: 2018-06-18 16:06:50
End at: 2018-06-18 16:07:20
Local clock offset: -0.395 ms
Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-06-18 17:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 290.60 Mbit/s
95th percentile per-packet one-way delay: 115.899 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 157.47 Mbit/s
95th percentile per-packet one-way delay: 115.244 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 140.28 Mbit/s
95th percentile per-packet one-way delay: 116.118 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.72 Mbit/s
95th percentile per-packet one-way delay: 116.944 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-18 16:30:23

End at: 2018-06-18 16:30:53

Local clock offset: 0.056 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.91 Mbit/s

95th percentile per-packet one-way delay: 129.516 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 143.97 Mbit/s

95th percentile per-packet one-way delay: 119.733 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 204.14 Mbit/s

95th percentile per-packet one-way delay: 130.538 ms

Loss rate: 0.00%

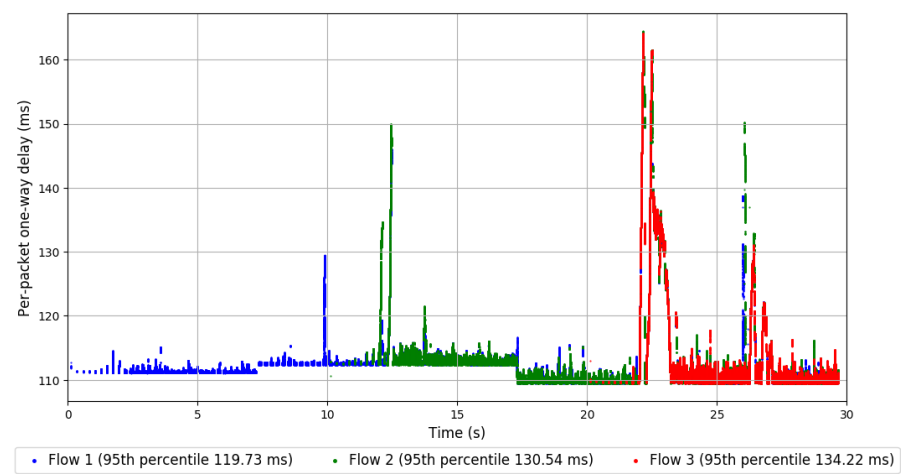
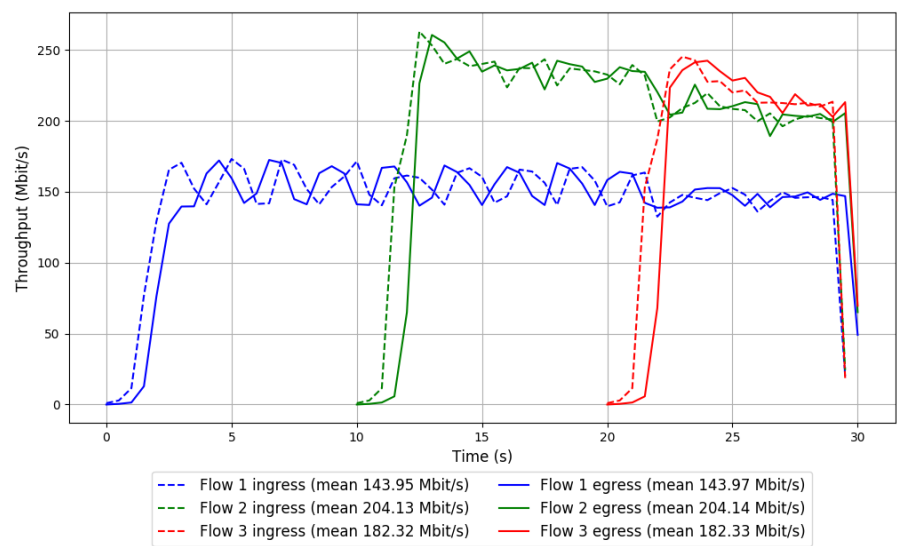
-- Flow 3:

Average throughput: 182.33 Mbit/s

95th percentile per-packet one-way delay: 134.217 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

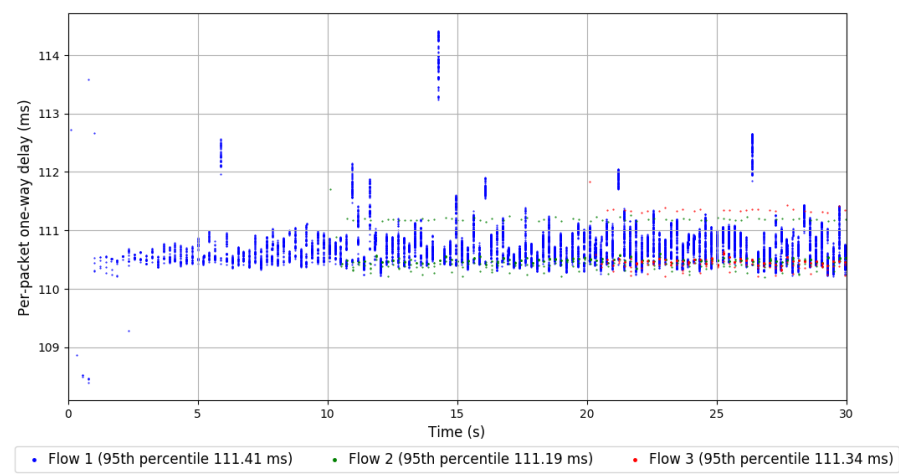
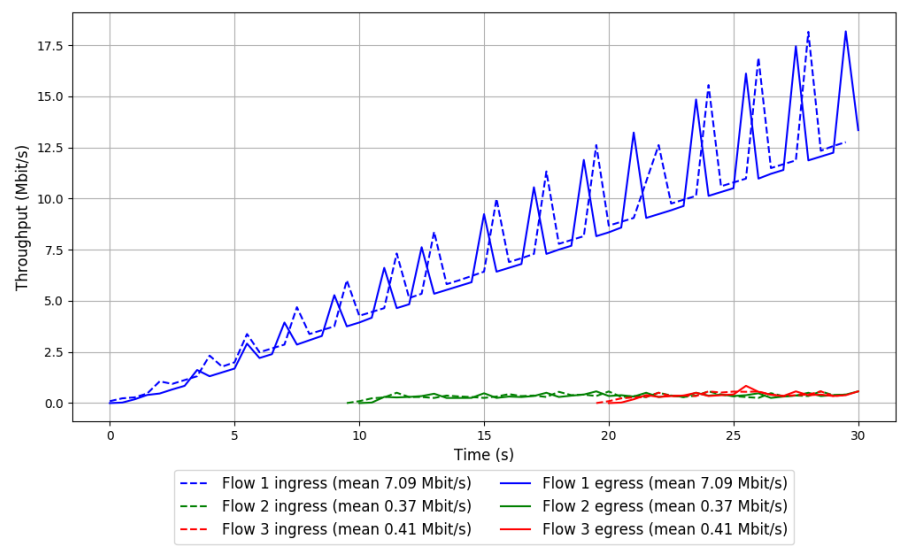


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-18 12:40:40
End at: 2018-06-18 12:41:10
Local clock offset: 0.027 ms
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2018-06-18 17:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 111.390 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 111.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 111.187 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 111.336 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-18 13:05:03

End at: 2018-06-18 13:05:33

Local clock offset: -1.225 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 114.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 114.600 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 114.503 ms

Loss rate: 0.00%

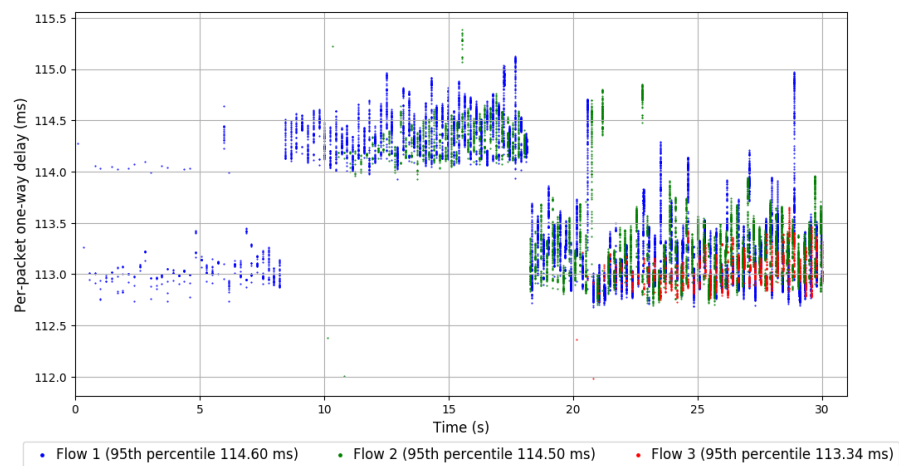
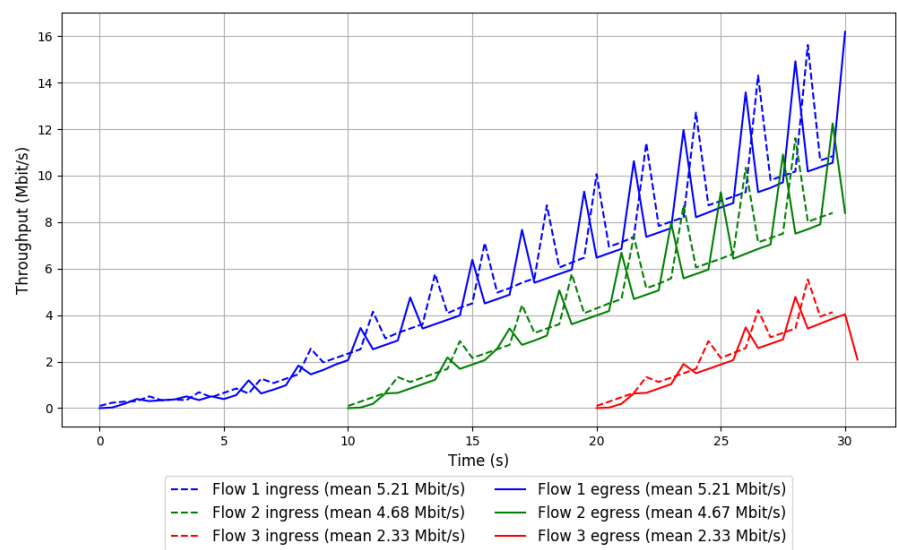
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 113.341 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-18 13:29:01

End at: 2018-06-18 13:29:31

Local clock offset: 1.342 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-18 17:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 111.813 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 111.910 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 111.729 ms

Loss rate: 0.00%

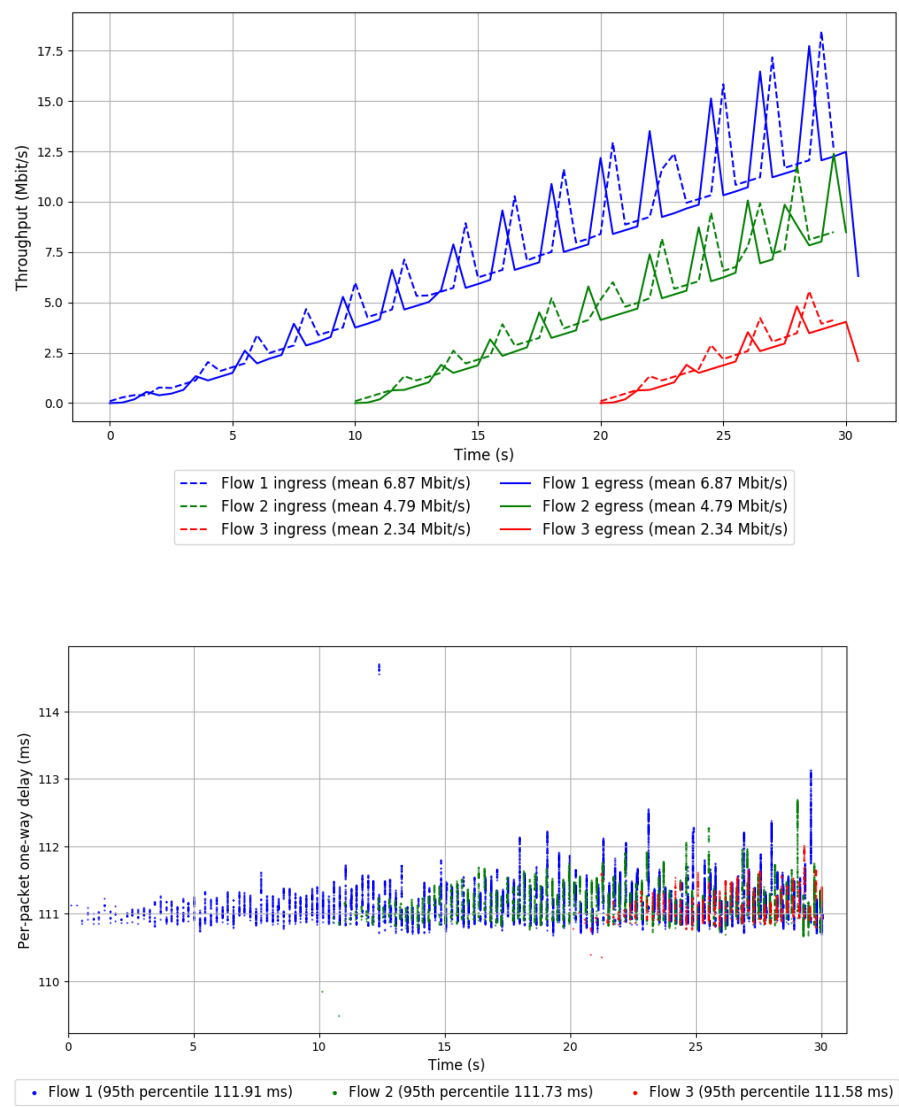
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 111.580 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

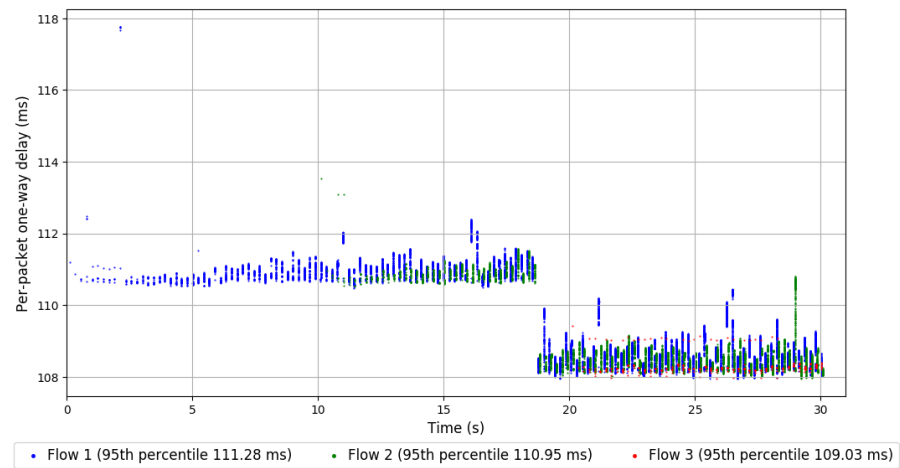
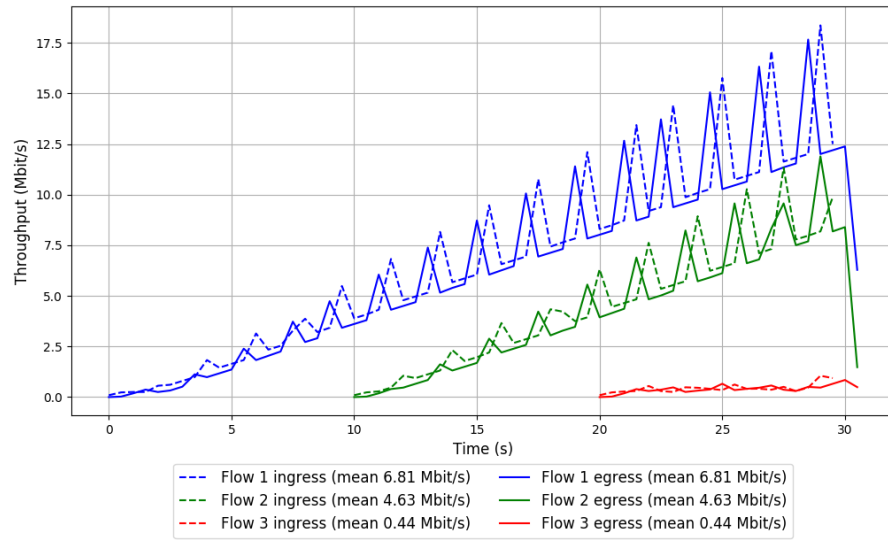


Run 4: Statistics of LEDBAT

Start at: 2018-06-18 13:52:52
End at: 2018-06-18 13:53:22
Local clock offset: 1.347 ms
Remote clock offset: -0.389 ms

Below is generated by plot.py at 2018-06-18 17:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.02 Mbit/s
95th percentile per-packet one-way delay: 111.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 111.275 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 110.953 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.034 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-18 14:17:03

End at: 2018-06-18 14:17:33

Local clock offset: -0.115 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.18 Mbit/s

95th percentile per-packet one-way delay: 112.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 112.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 112.722 ms

Loss rate: 0.00%

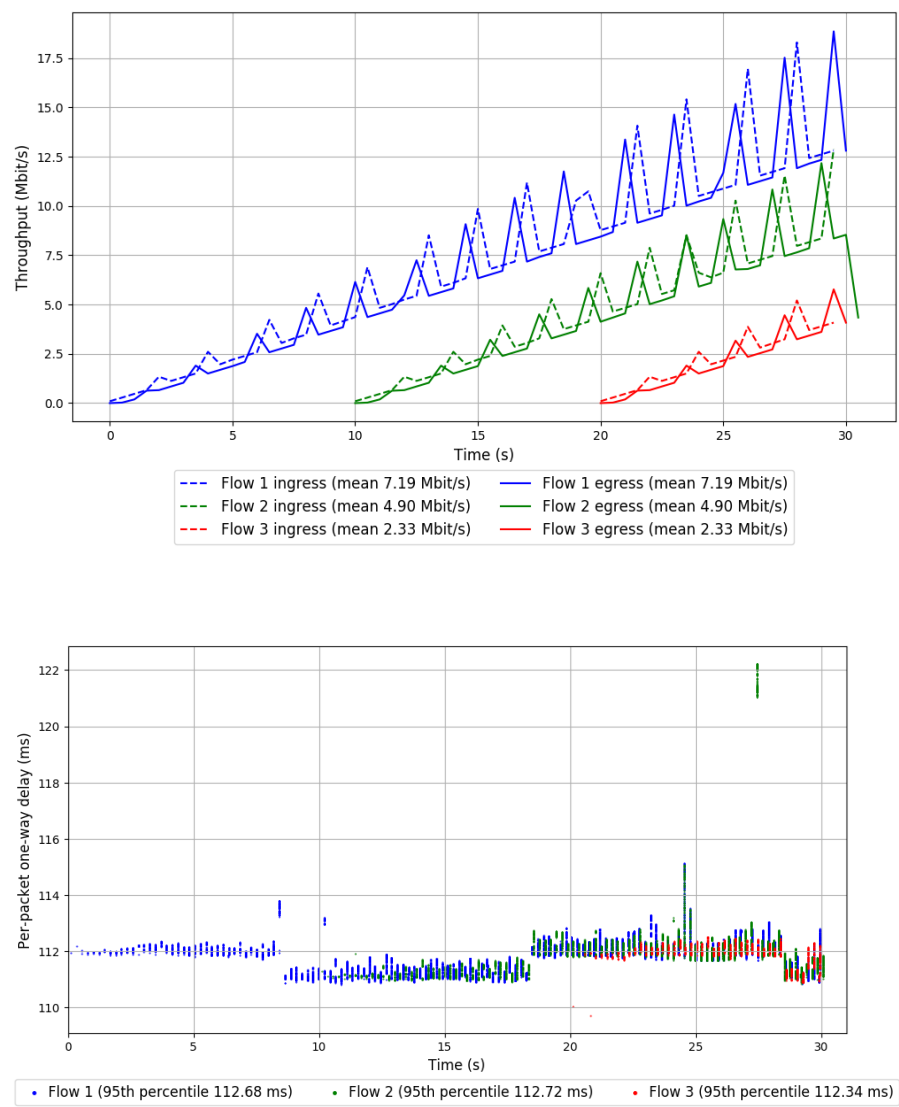
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 112.344 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-18 14:41:23

End at: 2018-06-18 14:41:53

Local clock offset: 0.182 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.69 Mbit/s

95th percentile per-packet one-way delay: 112.903 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 112.934 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 112.781 ms

Loss rate: 0.00%

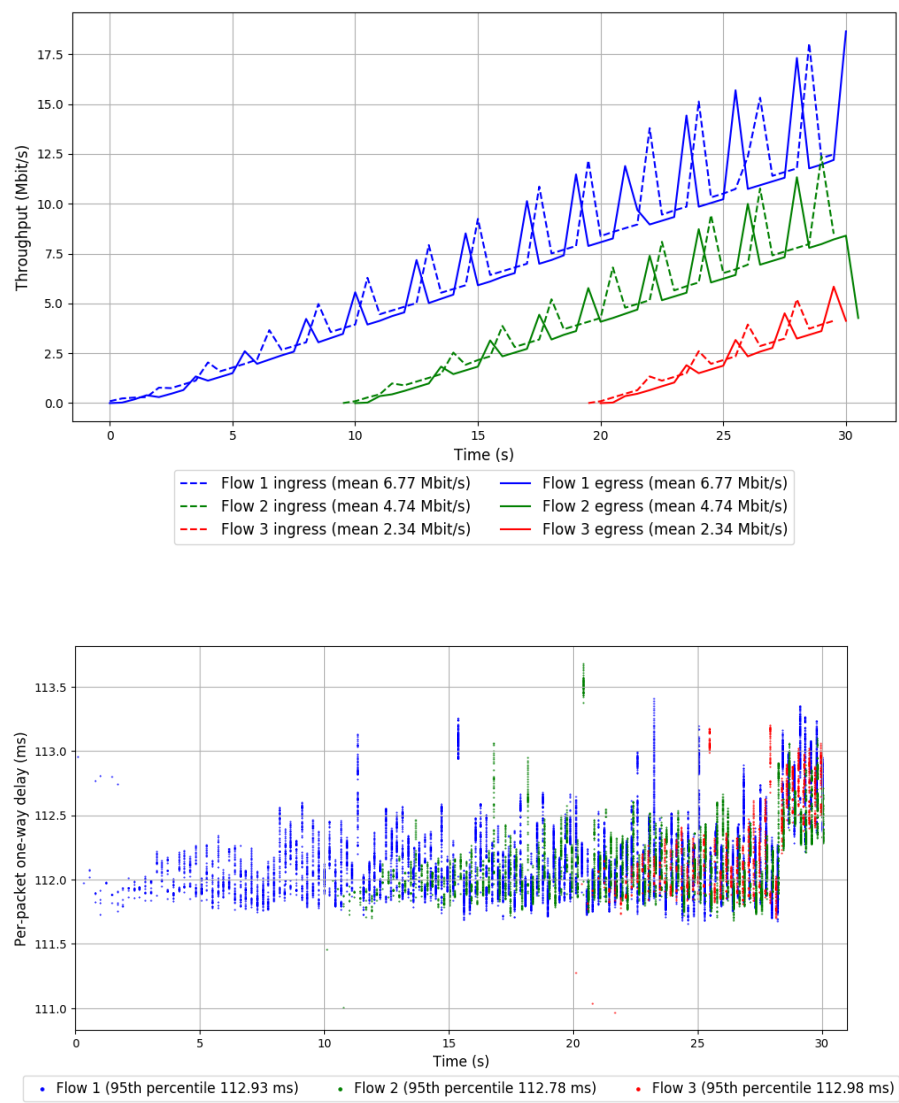
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 112.981 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-18 15:05:37

End at: 2018-06-18 15:06:07

Local clock offset: -0.018 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: 112.937 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 112.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 112.887 ms

Loss rate: 0.00%

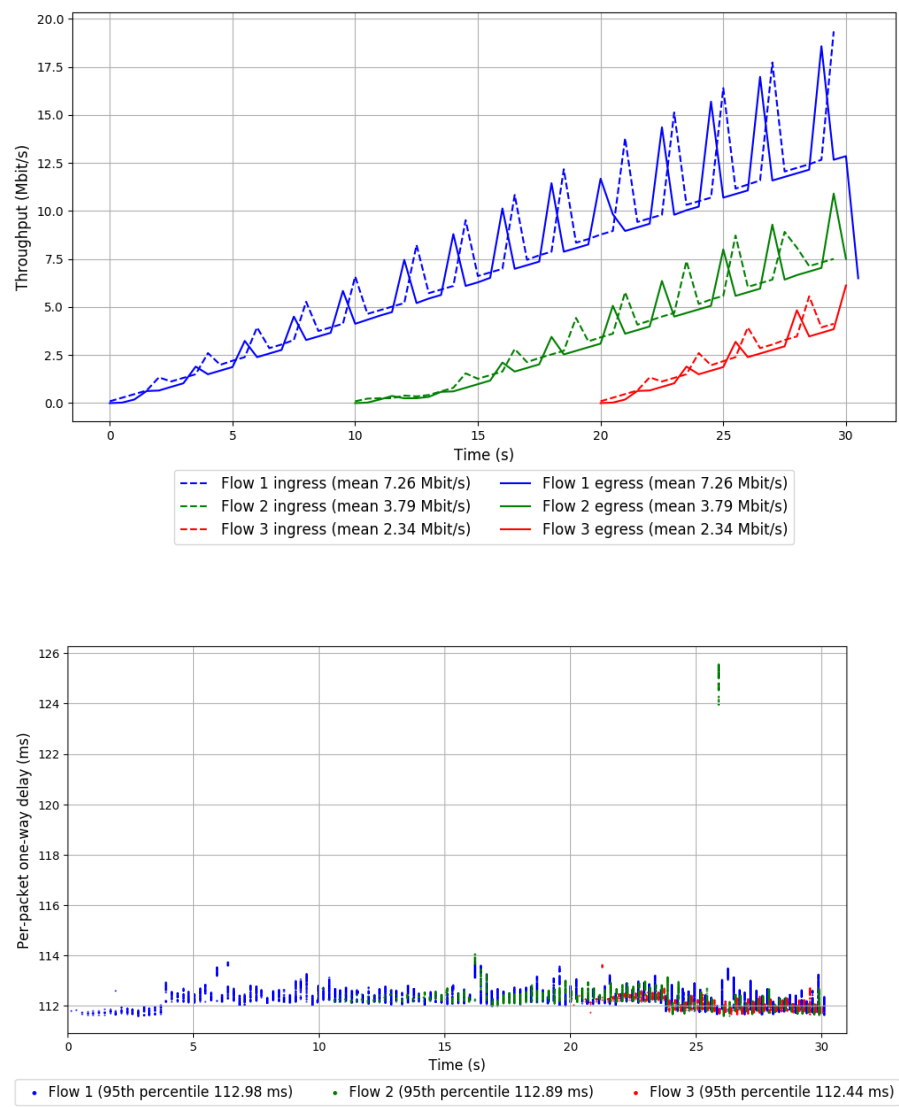
-- Flow 3:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 112.444 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-18 15:29:32

End at: 2018-06-18 15:30:02

Local clock offset: -0.007 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 113.421 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 113.471 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 113.288 ms

Loss rate: 0.00%

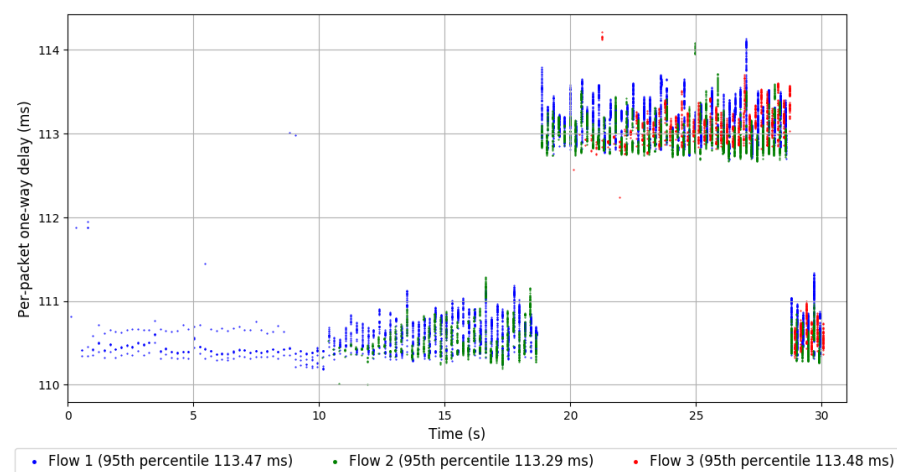
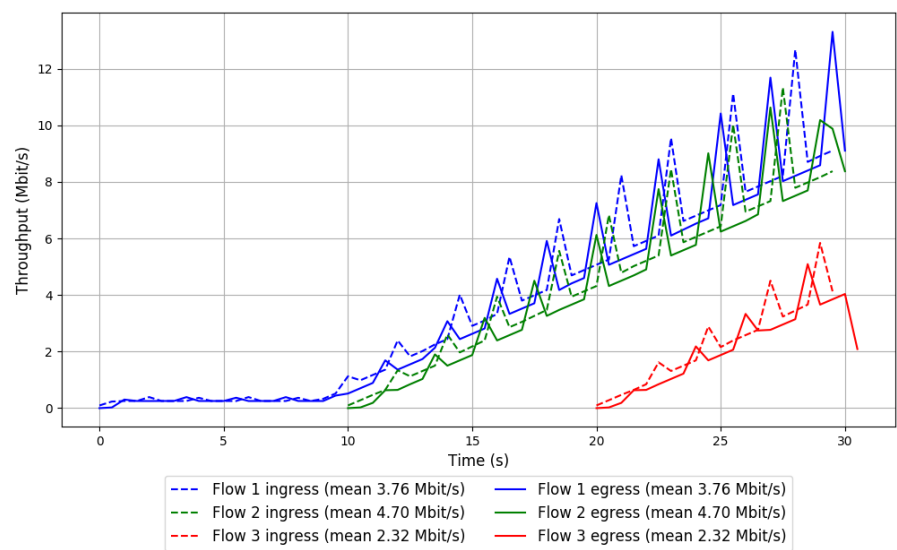
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 113.483 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

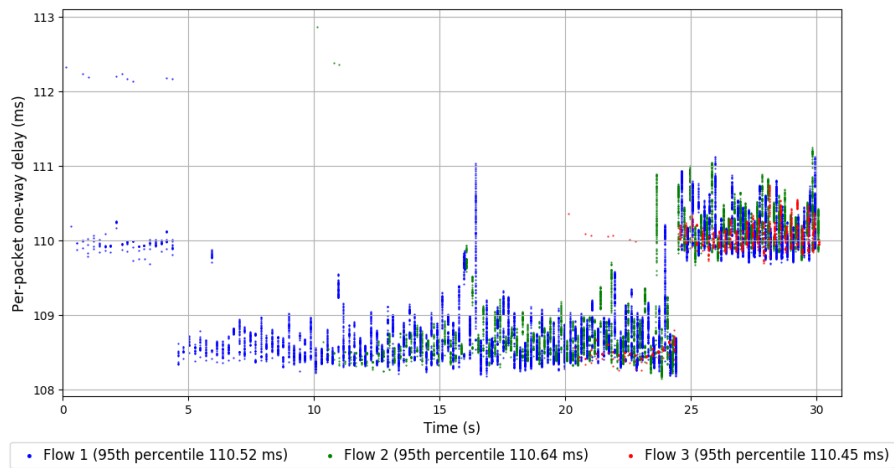
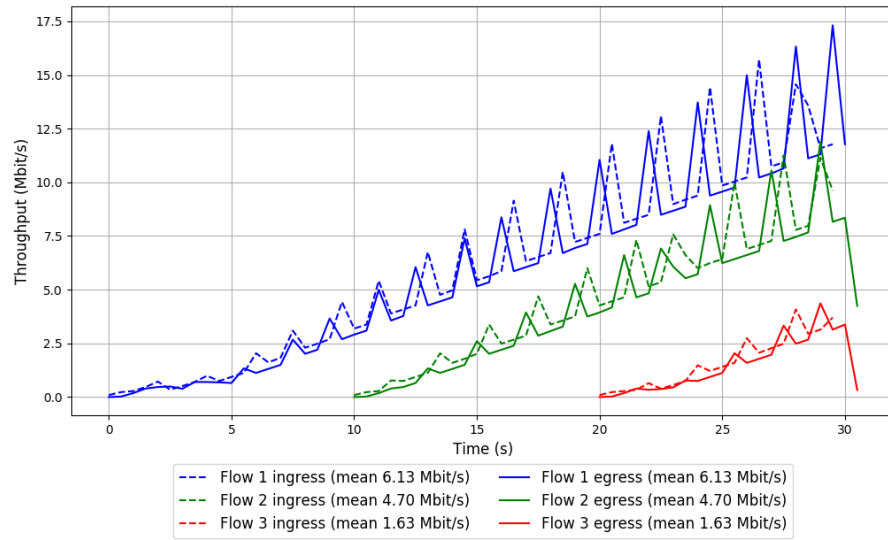


Run 9: Statistics of LEDBAT

Start at: 2018-06-18 15:53:07
End at: 2018-06-18 15:53:37
Local clock offset: 0.153 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-06-18 17:56:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 110.548 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 110.521 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 110.637 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 110.450 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-18 16:16:52

End at: 2018-06-18 16:17:22

Local clock offset: 1.167 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 110.691 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 110.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 110.583 ms

Loss rate: 0.00%

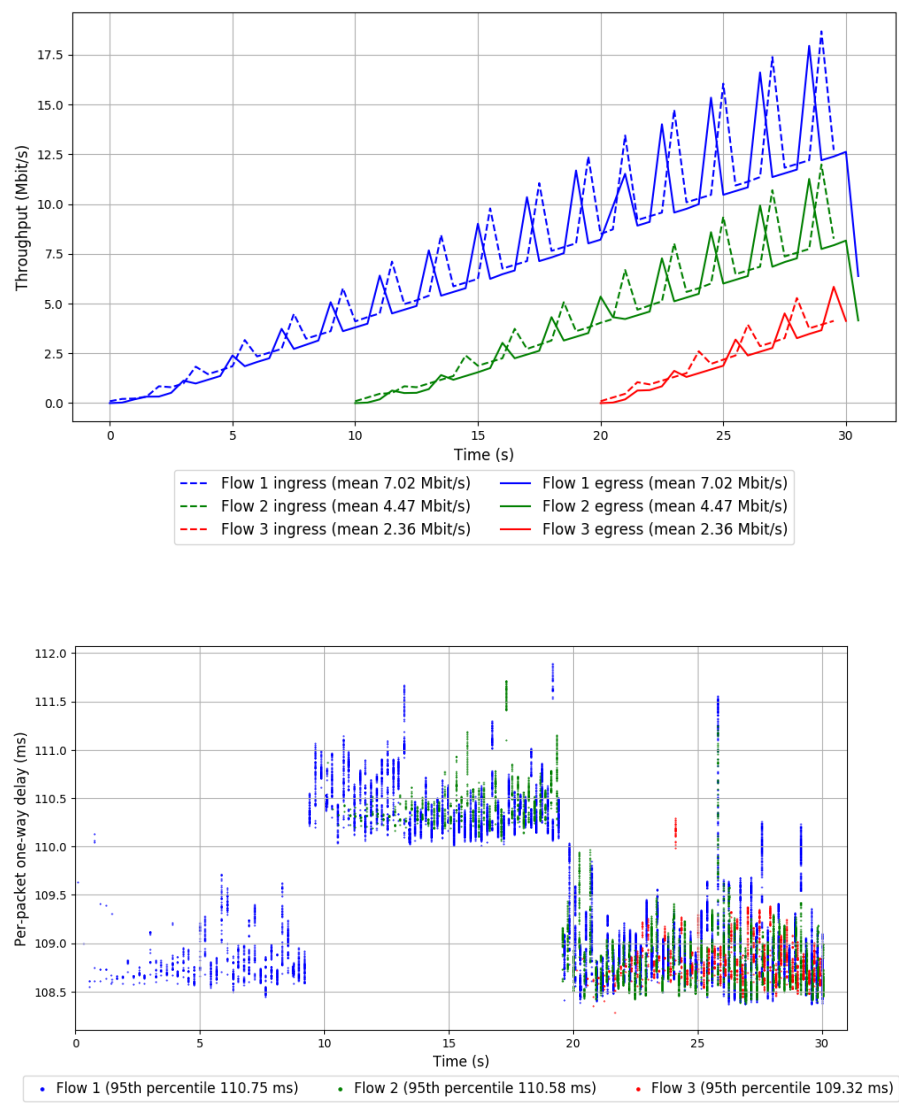
-- Flow 3:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 109.320 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

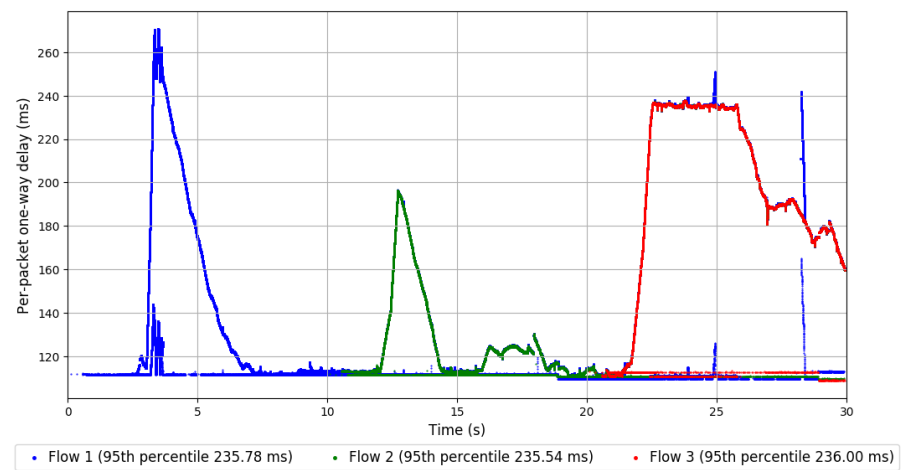
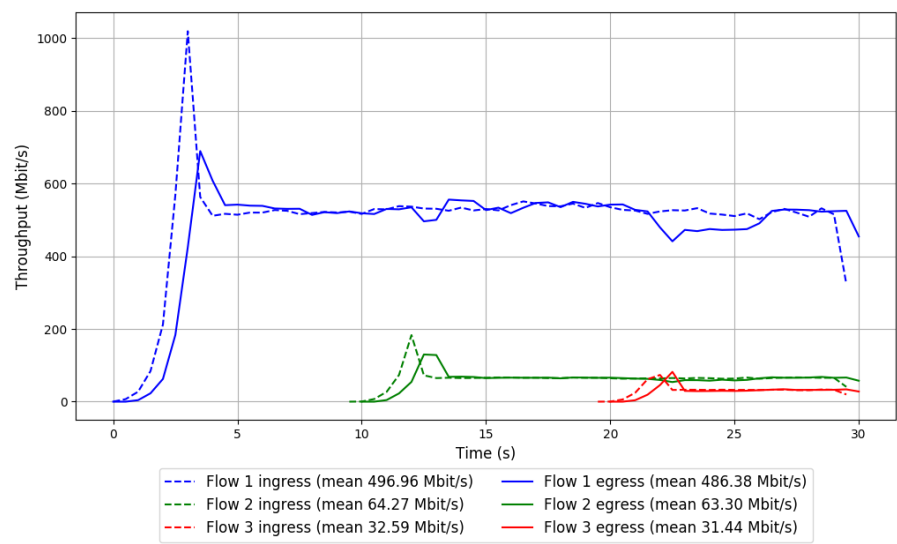


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 12:47:12
End at: 2018-06-18 12:47:42
Local clock offset: -0.031 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-06-18 17:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 538.86 Mbit/s
95th percentile per-packet one-way delay: 235.764 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 486.38 Mbit/s
95th percentile per-packet one-way delay: 235.779 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 63.30 Mbit/s
95th percentile per-packet one-way delay: 235.542 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 236.003 ms
Loss rate: 3.50%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-18 13:11:08

End at: 2018-06-18 13:11:38

Local clock offset: -0.011 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 512.20 Mbit/s

95th percentile per-packet one-way delay: 237.227 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 457.87 Mbit/s

95th percentile per-packet one-way delay: 237.259 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 65.63 Mbit/s

95th percentile per-packet one-way delay: 237.119 ms

Loss rate: 0.67%

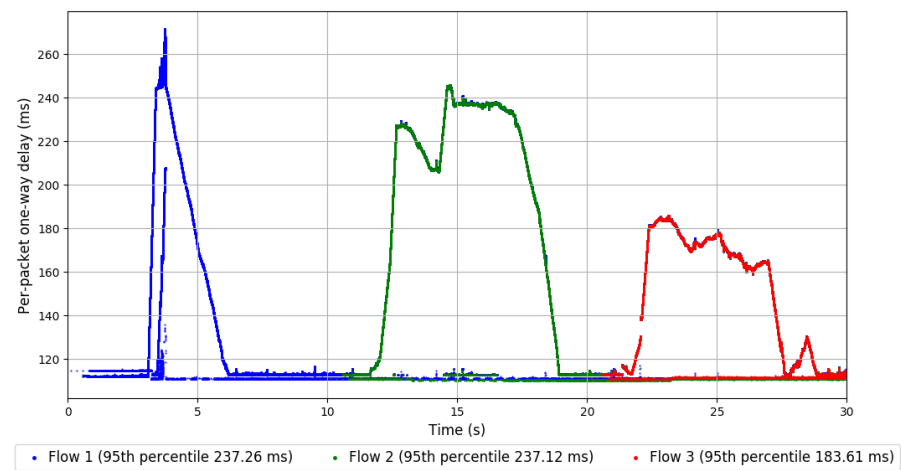
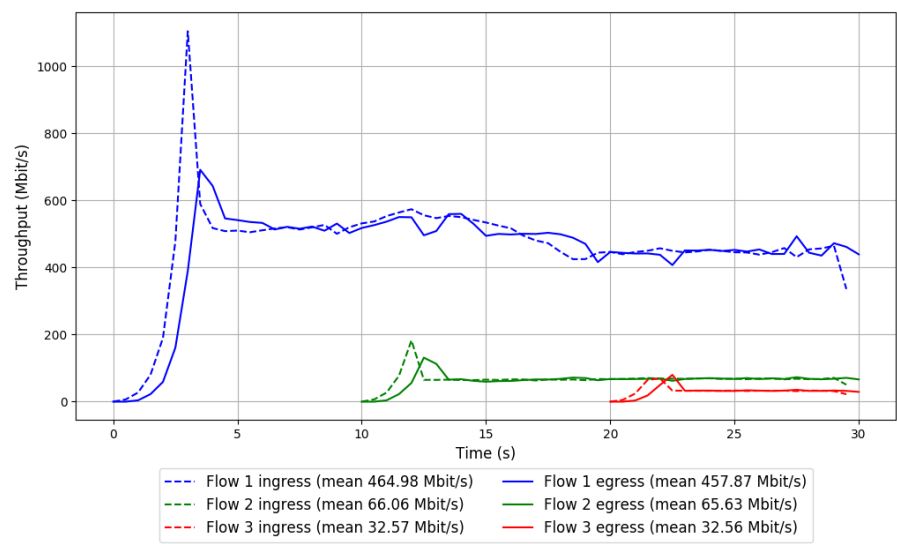
-- Flow 3:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 183.613 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-18 13:35:08

End at: 2018-06-18 13:35:38

Local clock offset: 0.039 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 518.36 Mbit/s

95th percentile per-packet one-way delay: 242.903 ms

Loss rate: 3.46%

-- Flow 1:

Average throughput: 469.16 Mbit/s

95th percentile per-packet one-way delay: 242.967 ms

Loss rate: 3.42%

-- Flow 2:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 244.444 ms

Loss rate: 3.31%

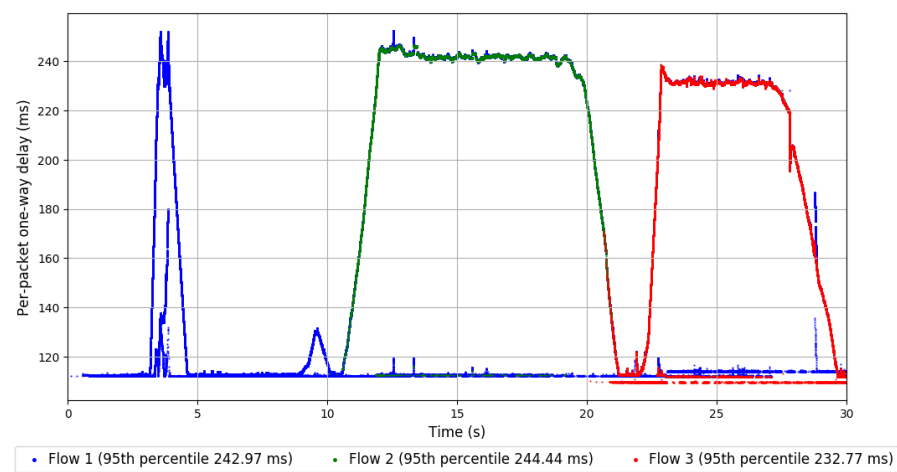
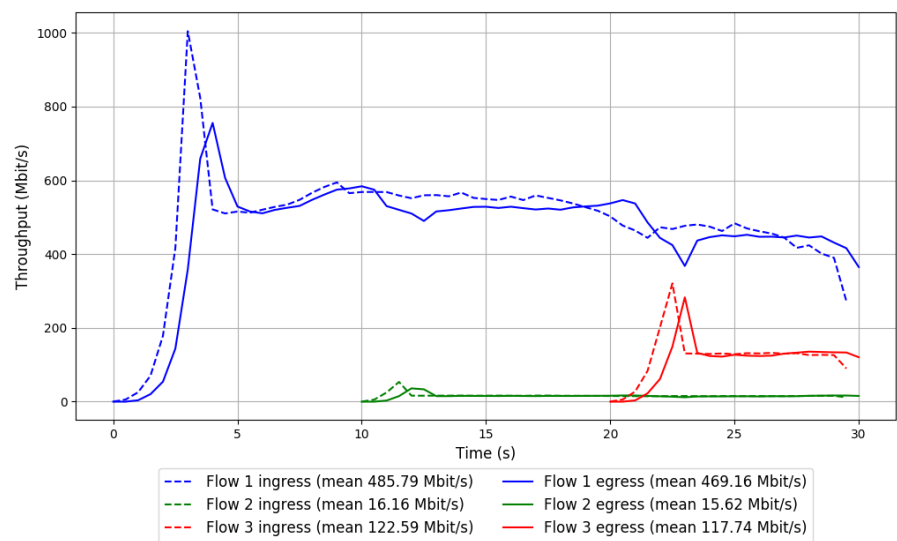
-- Flow 3:

Average throughput: 117.74 Mbit/s

95th percentile per-packet one-way delay: 232.774 ms

Loss rate: 3.94%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-18 13:58:58

End at: 2018-06-18 13:59:28

Local clock offset: 0.038 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 511.42 Mbit/s

95th percentile per-packet one-way delay: 206.608 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 486.51 Mbit/s

95th percentile per-packet one-way delay: 207.580 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 35.32 Mbit/s

95th percentile per-packet one-way delay: 188.147 ms

Loss rate: 0.00%

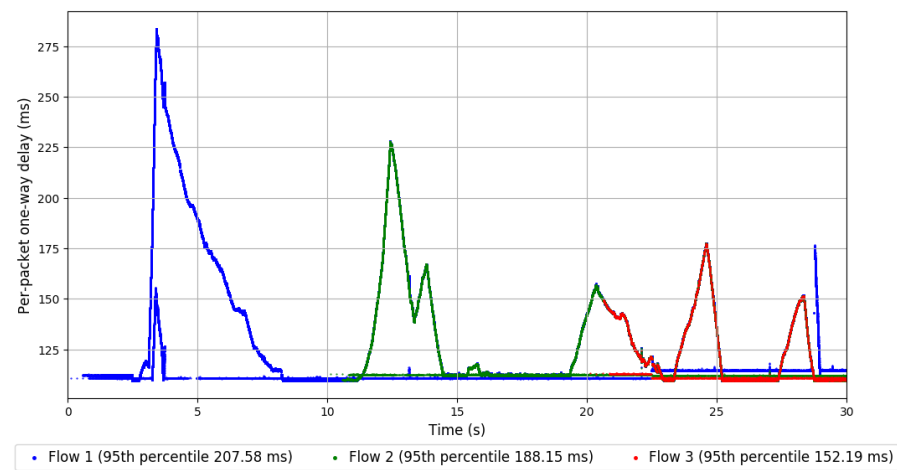
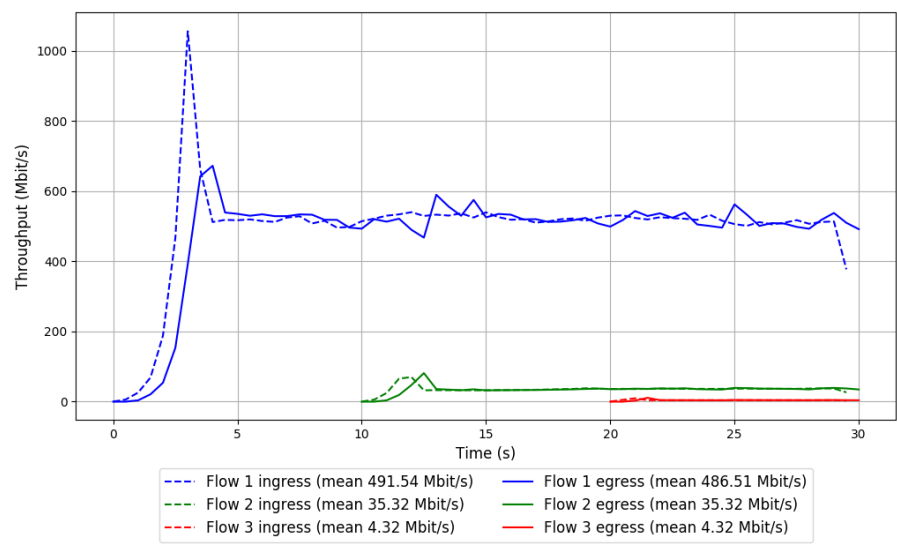
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 152.193 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-18 14:23:37

End at: 2018-06-18 14:24:07

Local clock offset: -1.382 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 500.45 Mbit/s

95th percentile per-packet one-way delay: 247.196 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 476.89 Mbit/s

95th percentile per-packet one-way delay: 247.192 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 247.247 ms

Loss rate: 0.97%

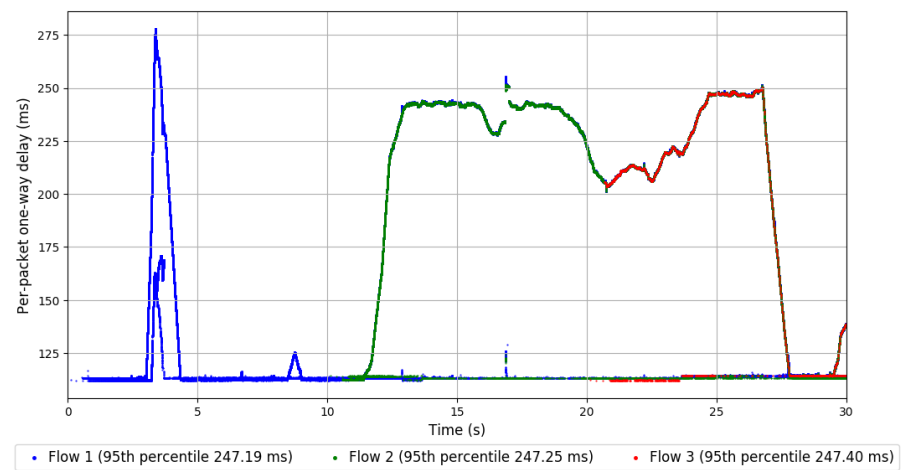
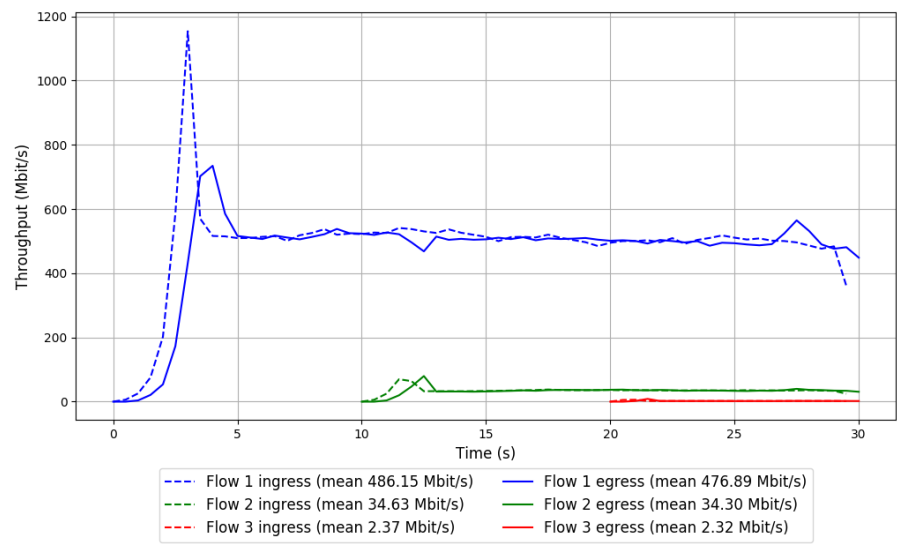
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 247.404 ms

Loss rate: 1.91%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-18 14:47:43

End at: 2018-06-18 14:48:13

Local clock offset: 0.094 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-18 17:56:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.33 Mbit/s

95th percentile per-packet one-way delay: 233.735 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 459.81 Mbit/s

95th percentile per-packet one-way delay: 233.561 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 232.996 ms

Loss rate: 0.48%

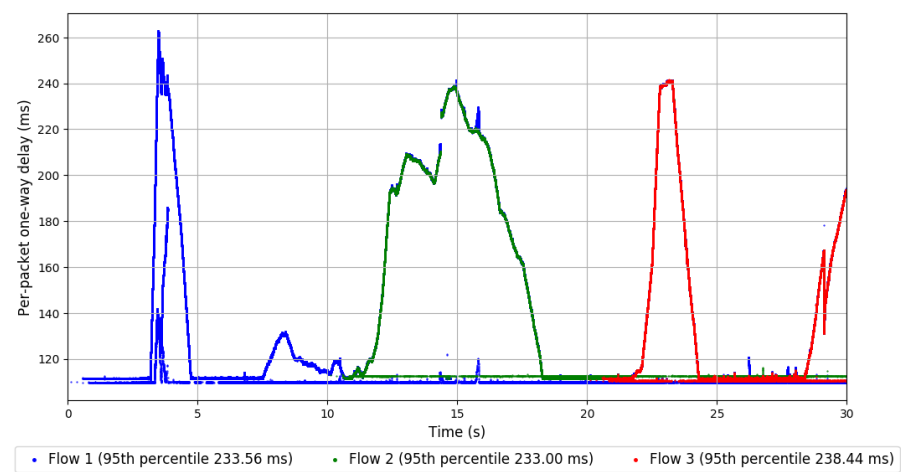
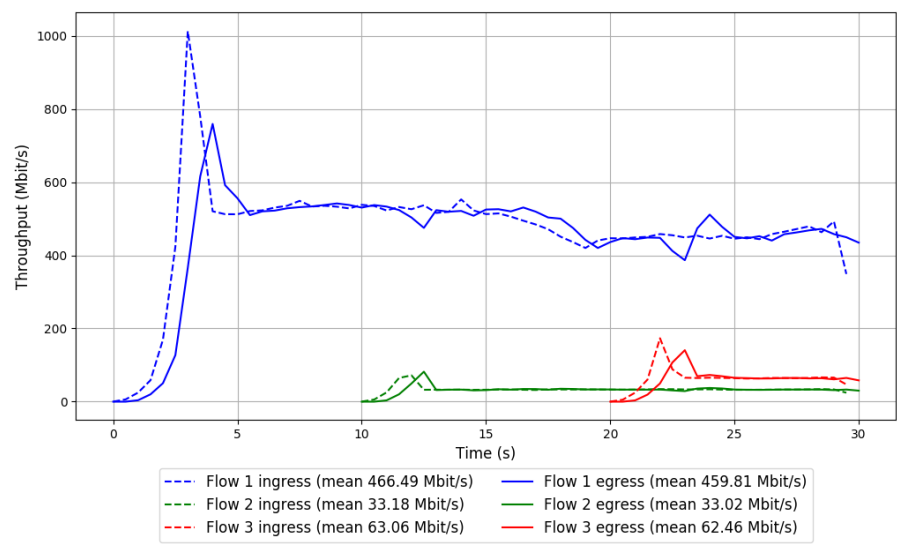
-- Flow 3:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 238.443 ms

Loss rate: 0.94%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-18 15:11:50

End at: 2018-06-18 15:12:20

Local clock offset: -0.062 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-18 17:57:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 544.15 Mbit/s

95th percentile per-packet one-way delay: 231.807 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 522.13 Mbit/s

95th percentile per-packet one-way delay: 231.823 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 231.555 ms

Loss rate: 1.28%

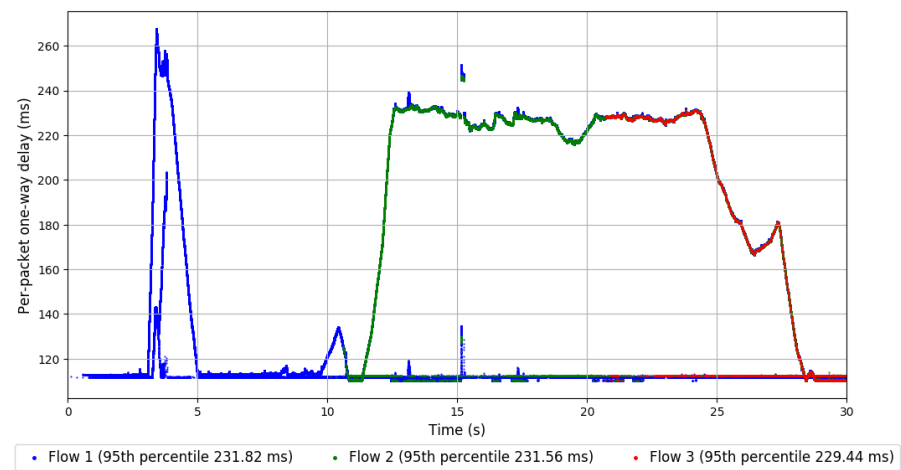
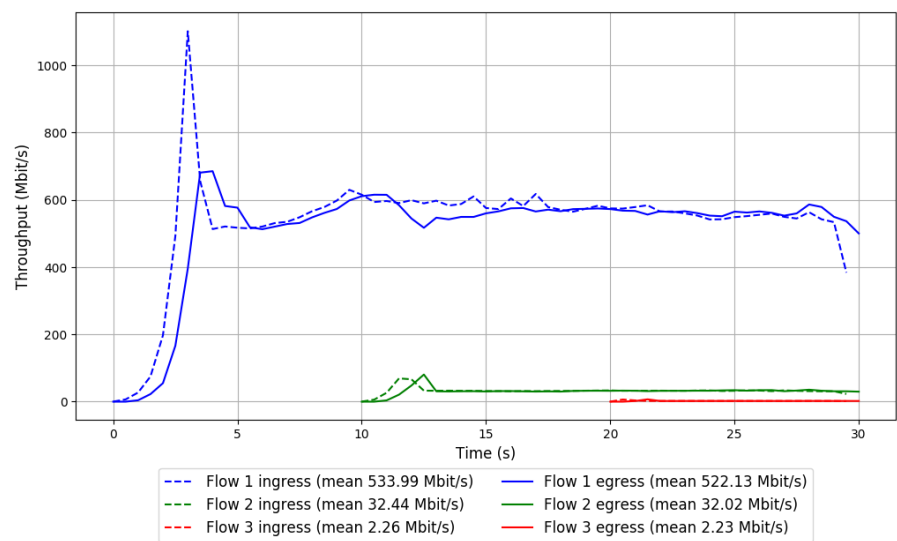
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 229.438 ms

Loss rate: 1.03%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-18 15:35:36

End at: 2018-06-18 15:36:06

Local clock offset: 0.155 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-18 17:57:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 527.74 Mbit/s

95th percentile per-packet one-way delay: 237.798 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 467.93 Mbit/s

95th percentile per-packet one-way delay: 237.785 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 59.89 Mbit/s

95th percentile per-packet one-way delay: 237.394 ms

Loss rate: 2.16%

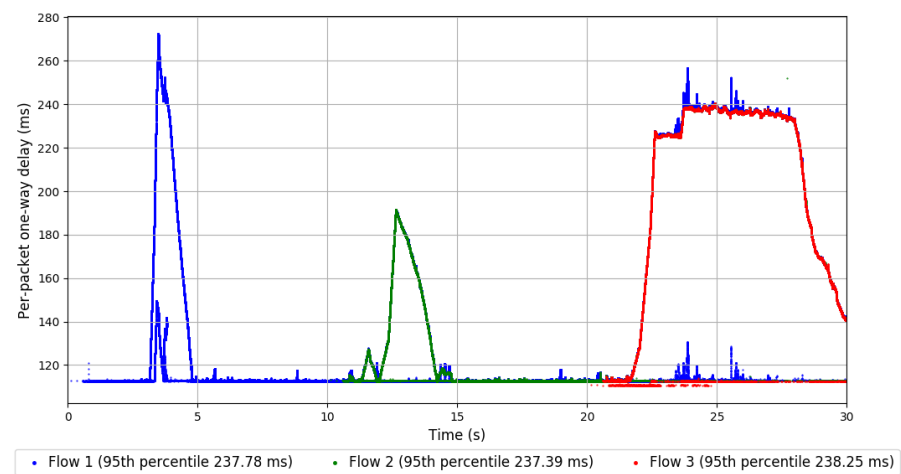
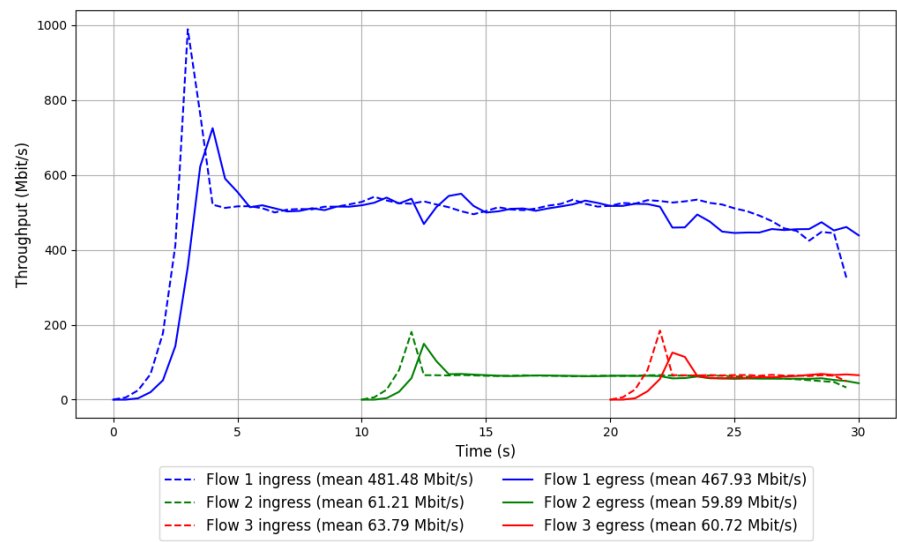
-- Flow 3:

Average throughput: 60.72 Mbit/s

95th percentile per-packet one-way delay: 238.245 ms

Loss rate: 4.79%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-18 15:59:12

End at: 2018-06-18 15:59:42

Local clock offset: -0.213 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-18 17:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 534.74 Mbit/s

95th percentile per-packet one-way delay: 234.444 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 474.13 Mbit/s

95th percentile per-packet one-way delay: 234.680 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 233.873 ms

Loss rate: 1.99%

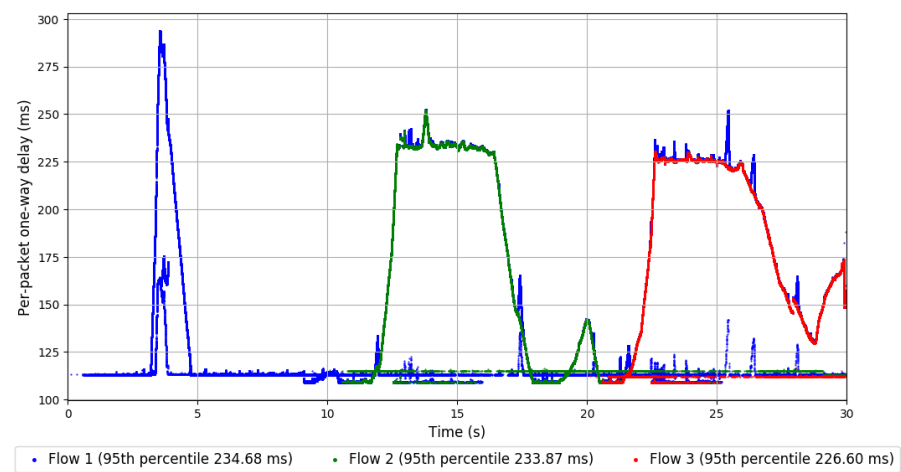
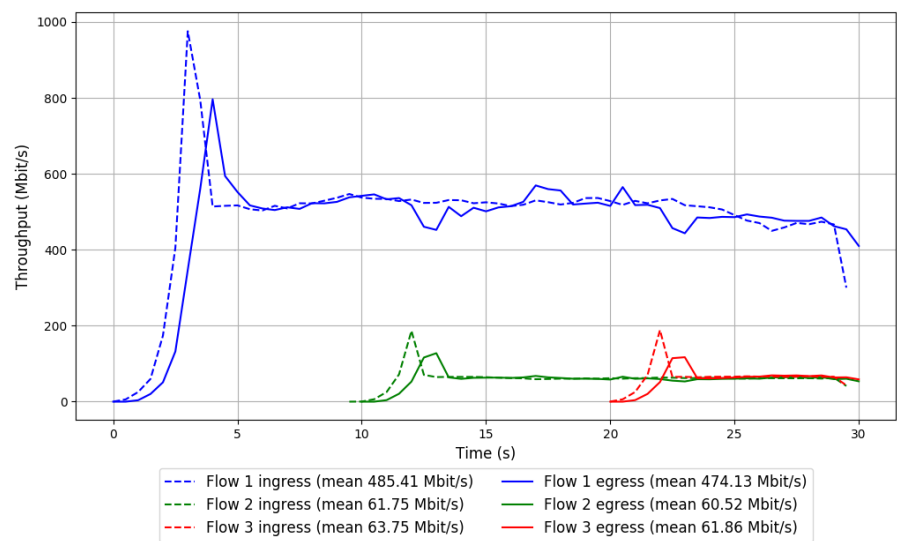
-- Flow 3:

Average throughput: 61.86 Mbit/s

95th percentile per-packet one-way delay: 226.605 ms

Loss rate: 2.92%

Run 9: Report of PCC-Allegro — Data Link

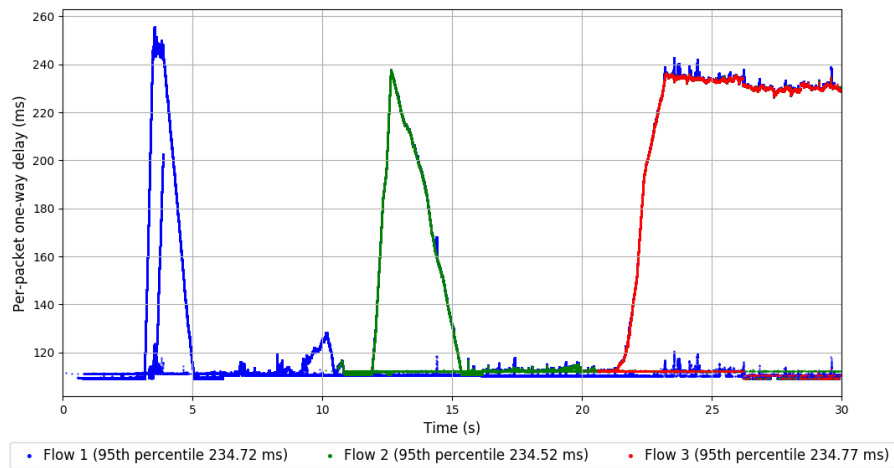
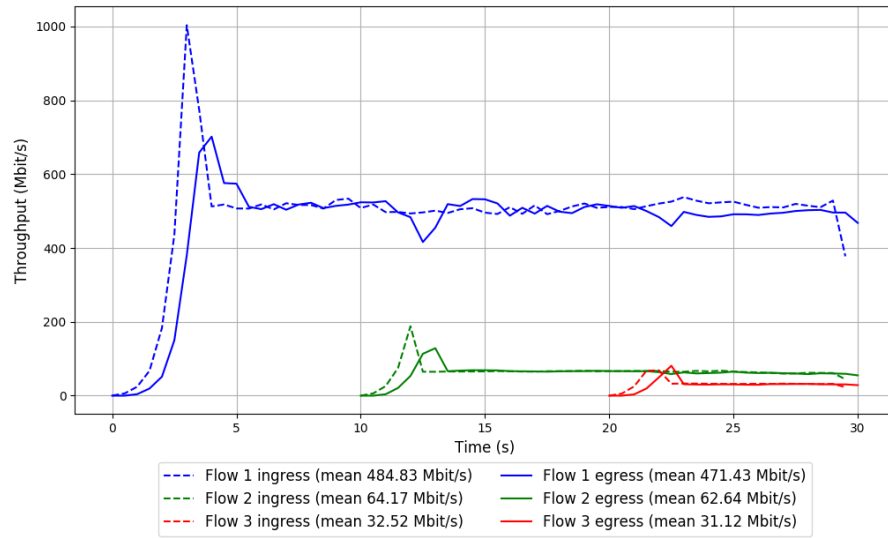


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-18 16:22:55
End at: 2018-06-18 16:23:25
Local clock offset: 0.102 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-06-18 17:59:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 523.31 Mbit/s
95th percentile per-packet one-way delay: 234.695 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 471.43 Mbit/s
95th percentile per-packet one-way delay: 234.719 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 234.520 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 234.773 ms
Loss rate: 4.29%

Run 10: Report of PCC-Allegro — Data Link

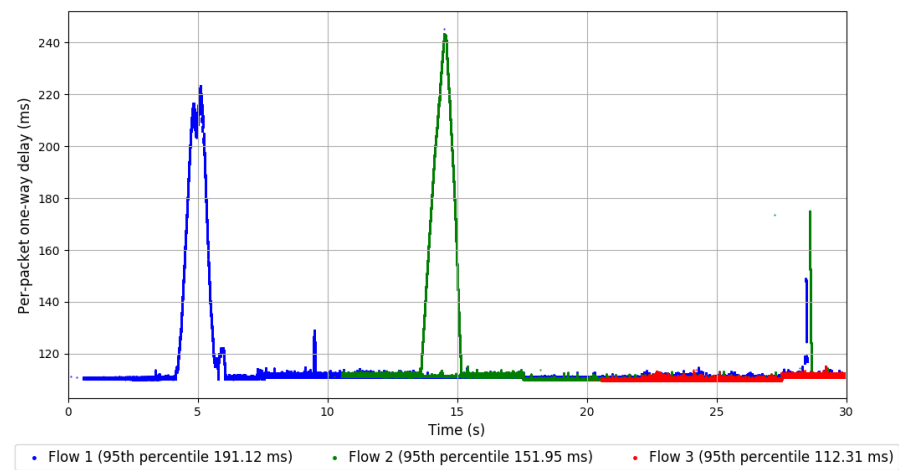
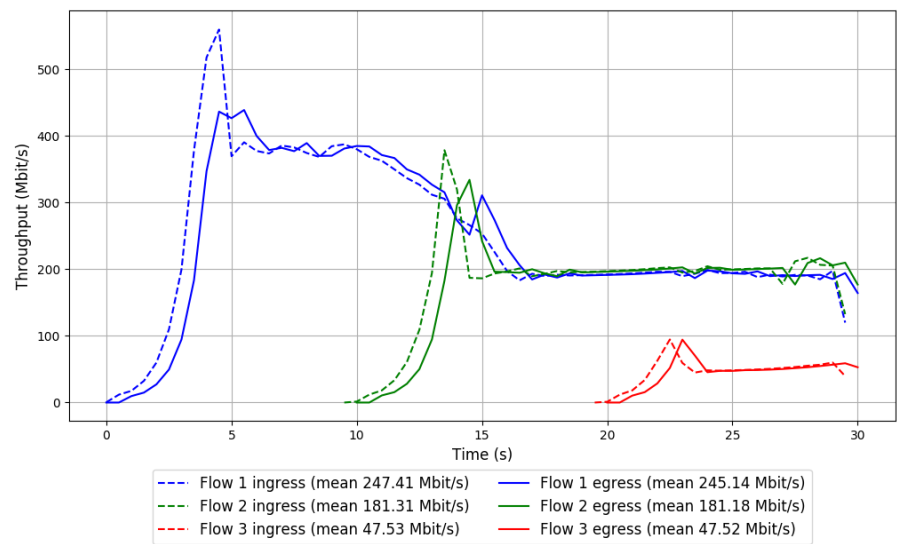


Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 12:57:43
End at: 2018-06-18 12:58:13
Local clock offset: 0.166 ms
Remote clock offset: -0.348 ms

Below is generated by plot.py at 2018-06-18 18:02:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 381.57 Mbit/s
95th percentile per-packet one-way delay: 177.441 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 245.14 Mbit/s
95th percentile per-packet one-way delay: 191.124 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 181.18 Mbit/s
95th percentile per-packet one-way delay: 151.952 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 112.315 ms
Loss rate: 0.00%

Run 1: Report of PCC-Expr — Data Link

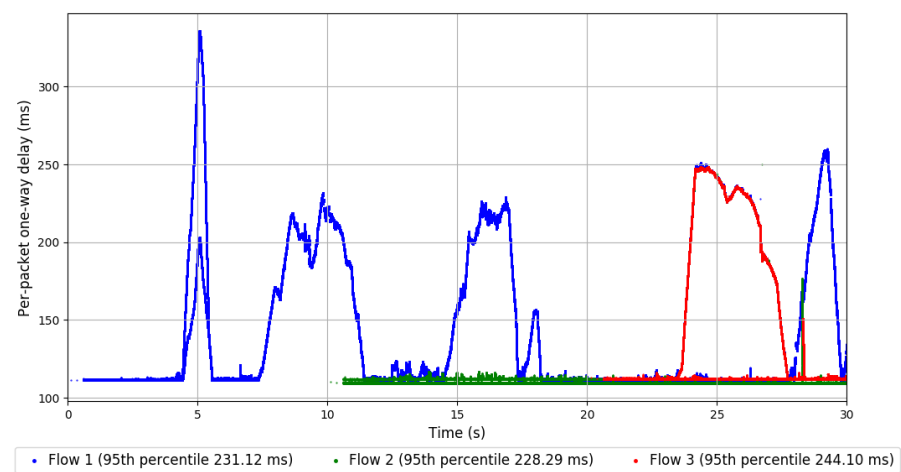
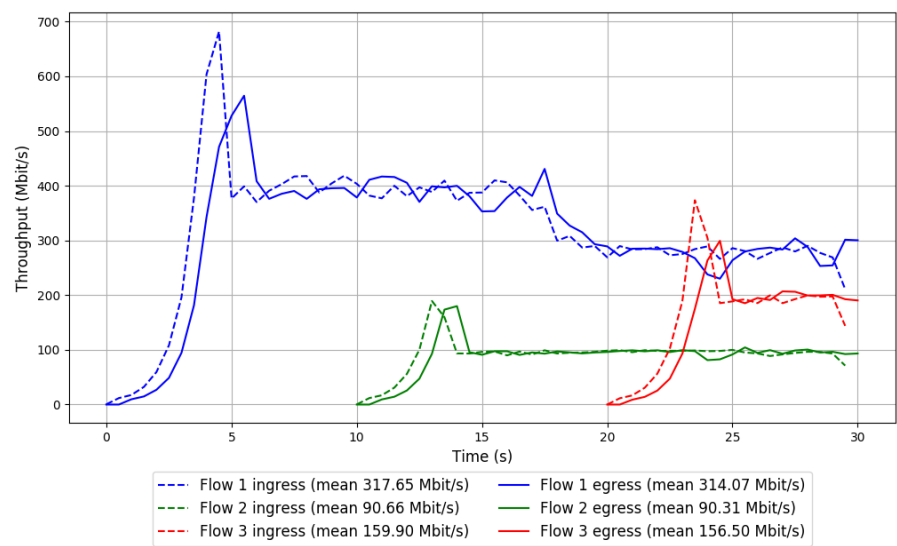


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-18 13:21:47
End at: 2018-06-18 13:22:17
Local clock offset: 0.016 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-18 18:05:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 425.75 Mbit/s
95th percentile per-packet one-way delay: 233.427 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 314.07 Mbit/s
95th percentile per-packet one-way delay: 231.121 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 228.288 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 156.50 Mbit/s
95th percentile per-packet one-way delay: 244.097 ms
Loss rate: 2.14%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-18 13:45:41

End at: 2018-06-18 13:46:11

Local clock offset: 0.212 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2018-06-18 18:05:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.28 Mbit/s

95th percentile per-packet one-way delay: 113.149 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 199.05 Mbit/s

95th percentile per-packet one-way delay: 113.146 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 113.06 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 0.00%

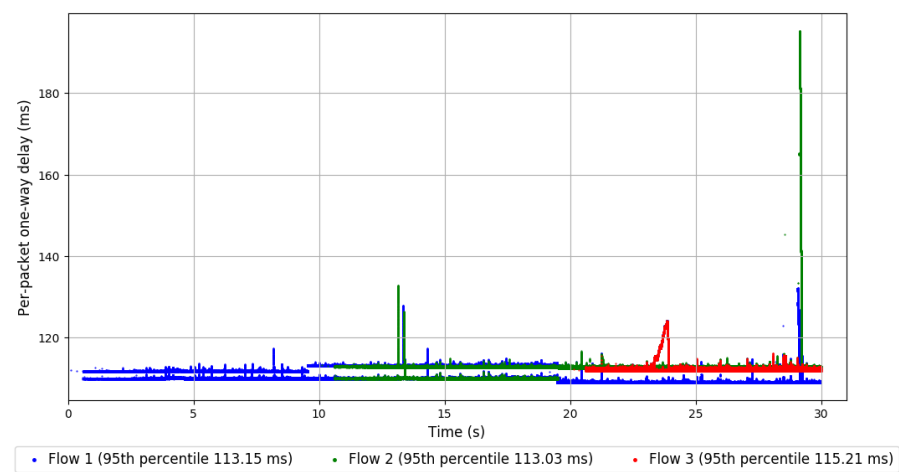
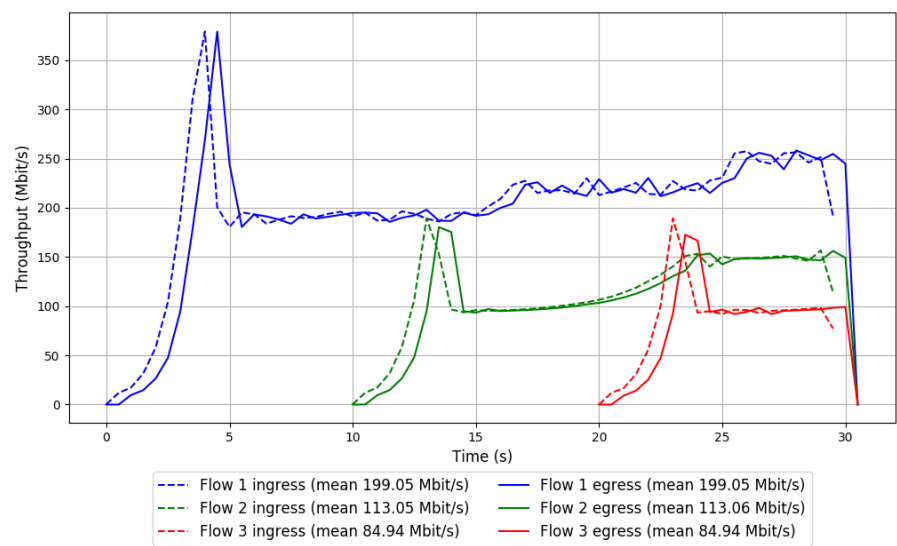
-- Flow 3:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 115.206 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

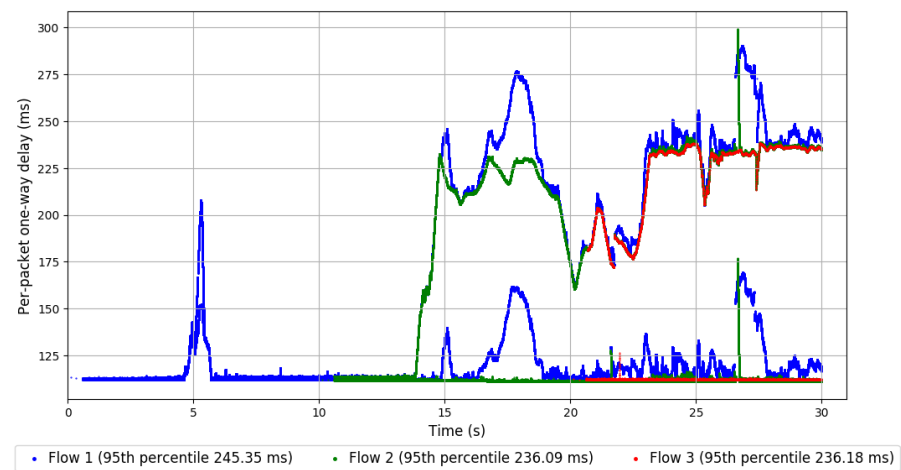
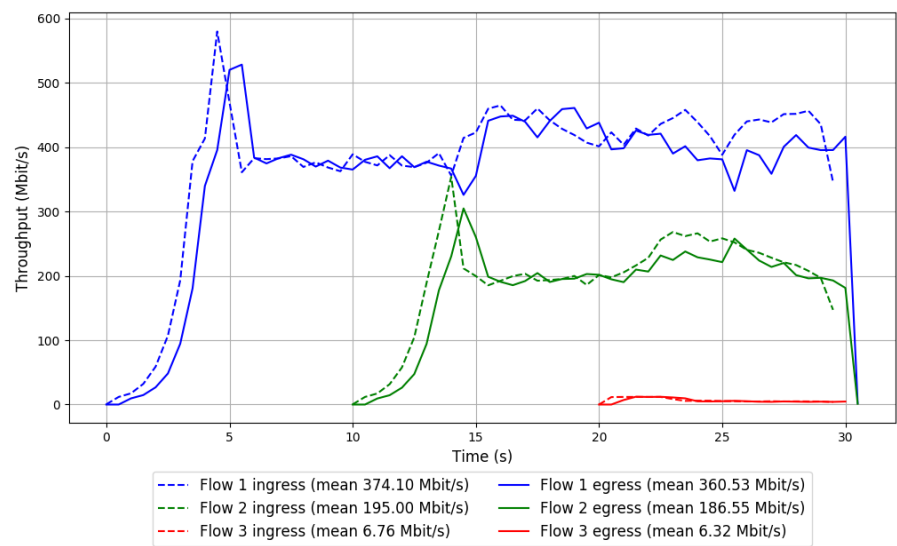


Run 4: Statistics of PCC-Expr

Start at: 2018-06-18 14:09:34
End at: 2018-06-18 14:10:04
Local clock offset: -1.388 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-18 18:12:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 486.70 Mbit/s
95th percentile per-packet one-way delay: 243.063 ms
Loss rate: 3.81%
-- Flow 1:
Average throughput: 360.53 Mbit/s
95th percentile per-packet one-way delay: 245.353 ms
Loss rate: 3.62%
-- Flow 2:
Average throughput: 186.55 Mbit/s
95th percentile per-packet one-way delay: 236.085 ms
Loss rate: 4.32%
-- Flow 3:
Average throughput: 6.32 Mbit/s
95th percentile per-packet one-way delay: 236.183 ms
Loss rate: 6.51%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-18 14:34:07

End at: 2018-06-18 14:34:37

Local clock offset: 0.017 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-18 18:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.70 Mbit/s

95th percentile per-packet one-way delay: 348.001 ms

Loss rate: 15.29%

-- Flow 1:

Average throughput: 369.44 Mbit/s

95th percentile per-packet one-way delay: 350.676 ms

Loss rate: 16.55%

-- Flow 2:

Average throughput: 114.05 Mbit/s

95th percentile per-packet one-way delay: 246.089 ms

Loss rate: 8.92%

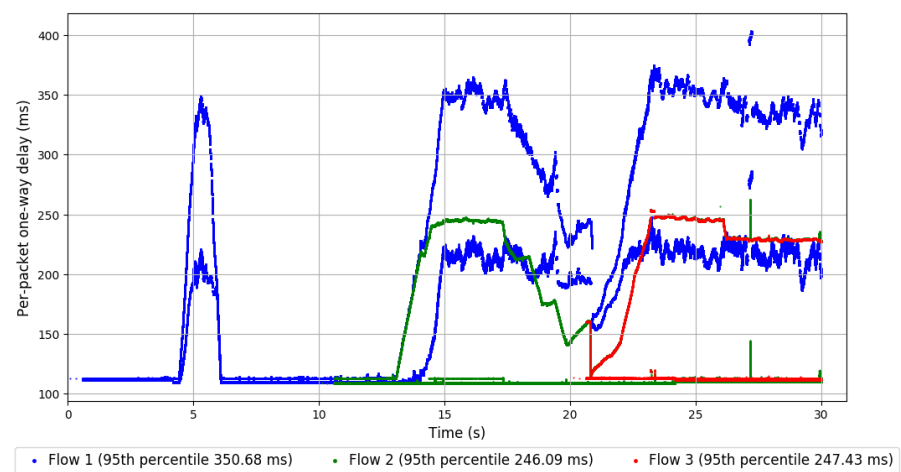
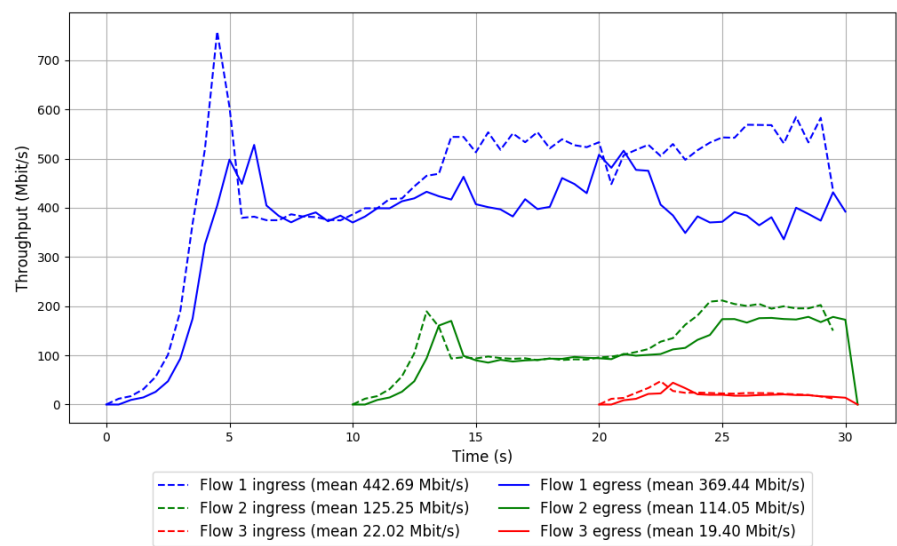
-- Flow 3:

Average throughput: 19.40 Mbit/s

95th percentile per-packet one-way delay: 247.428 ms

Loss rate: 11.86%

Run 5: Report of PCC-Expr — Data Link

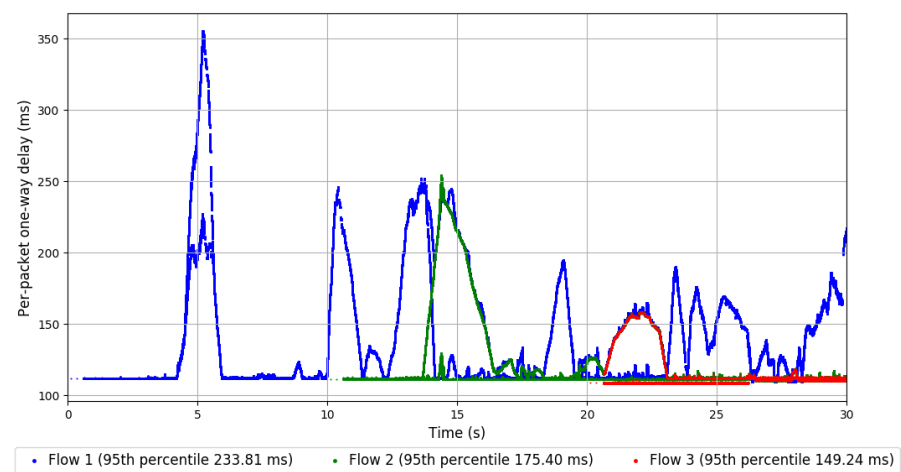
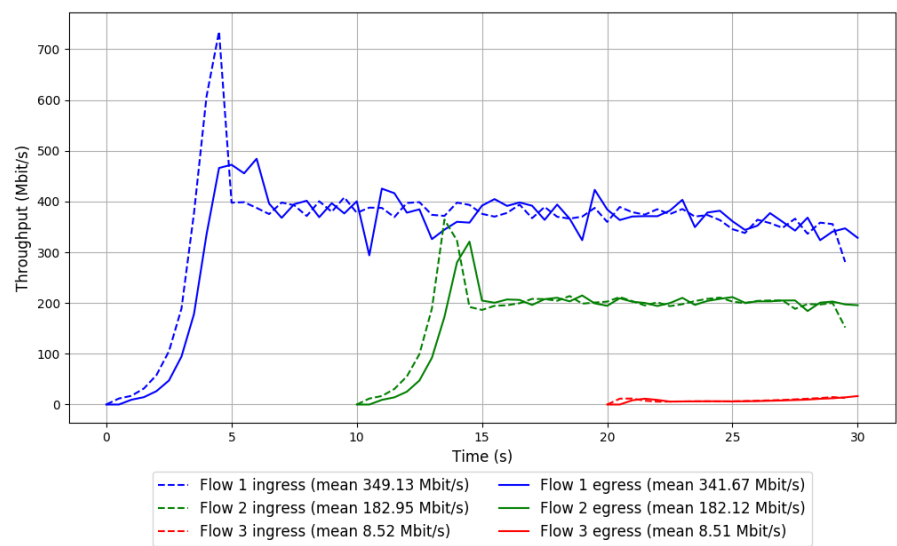


Run 6: Statistics of PCC-Expr

Start at: 2018-06-18 14:58:15
End at: 2018-06-18 14:58:45
Local clock offset: 0.06 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-06-18 18:13:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 465.62 Mbit/s
95th percentile per-packet one-way delay: 227.011 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 341.67 Mbit/s
95th percentile per-packet one-way delay: 233.812 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 182.12 Mbit/s
95th percentile per-packet one-way delay: 175.399 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 149.238 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-18 15:22:26

End at: 2018-06-18 15:22:56

Local clock offset: -0.06 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-18 18:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.95 Mbit/s

95th percentile per-packet one-way delay: 180.757 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 151.35 Mbit/s

95th percentile per-packet one-way delay: 164.800 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 204.03 Mbit/s

95th percentile per-packet one-way delay: 175.712 ms

Loss rate: 0.12%

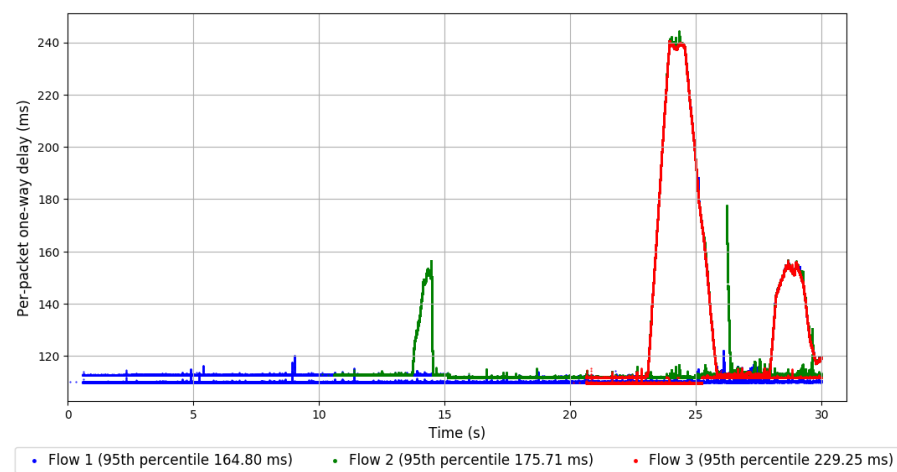
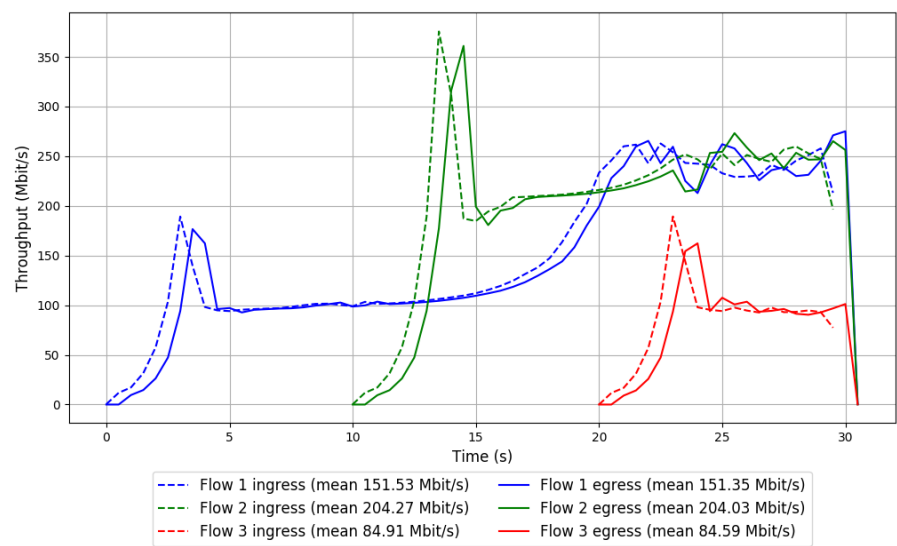
-- Flow 3:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 229.250 ms

Loss rate: 0.35%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-18 15:46:11

End at: 2018-06-18 15:46:41

Local clock offset: -0.16 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-06-18 18:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.02 Mbit/s

95th percentile per-packet one-way delay: 113.061 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 113.035 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.97 Mbit/s

95th percentile per-packet one-way delay: 113.077 ms

Loss rate: 0.00%

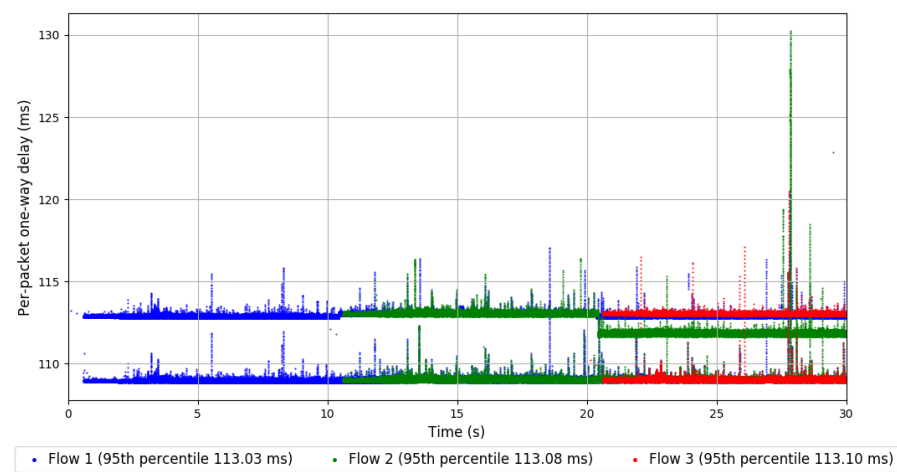
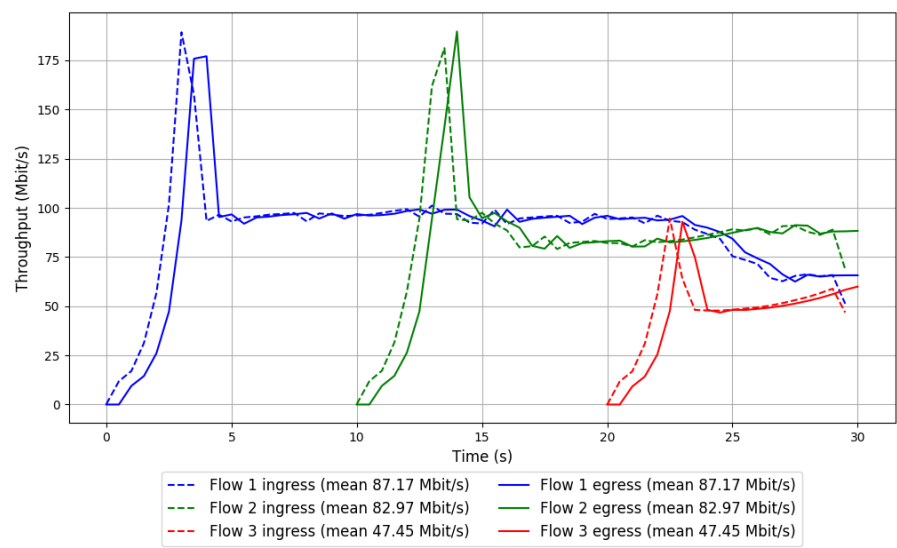
-- Flow 3:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 113.098 ms

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-18 16:09:46

End at: 2018-06-18 16:10:16

Local clock offset: -1.31 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-18 18:13:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.56 Mbit/s

95th percentile per-packet one-way delay: 290.209 ms

Loss rate: 2.90%

-- Flow 1:

Average throughput: 169.49 Mbit/s

95th percentile per-packet one-way delay: 292.308 ms

Loss rate: 4.21%

-- Flow 2:

Average throughput: 97.00 Mbit/s

95th percentile per-packet one-way delay: 114.039 ms

Loss rate: 0.00%

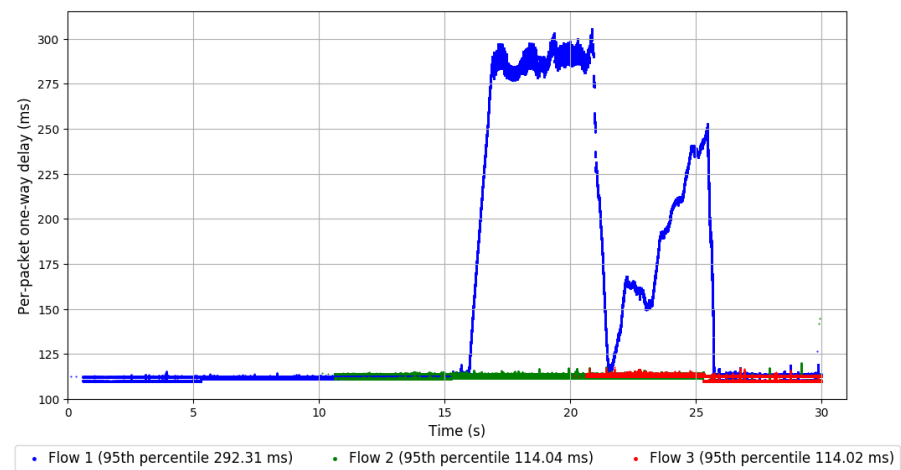
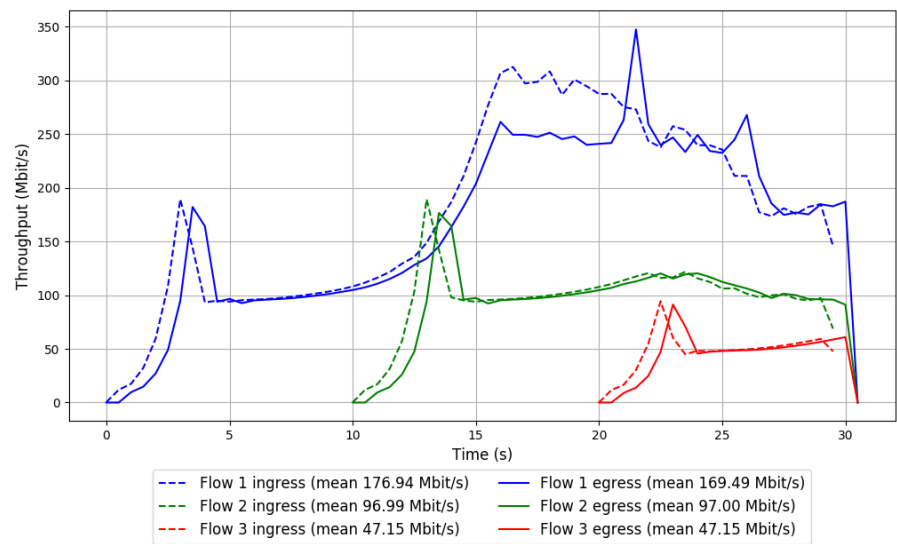
-- Flow 3:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 114.017 ms

Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link

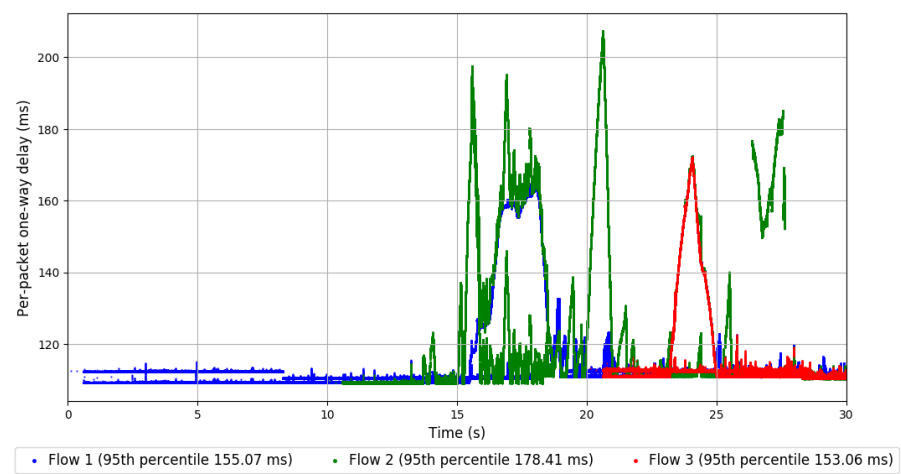
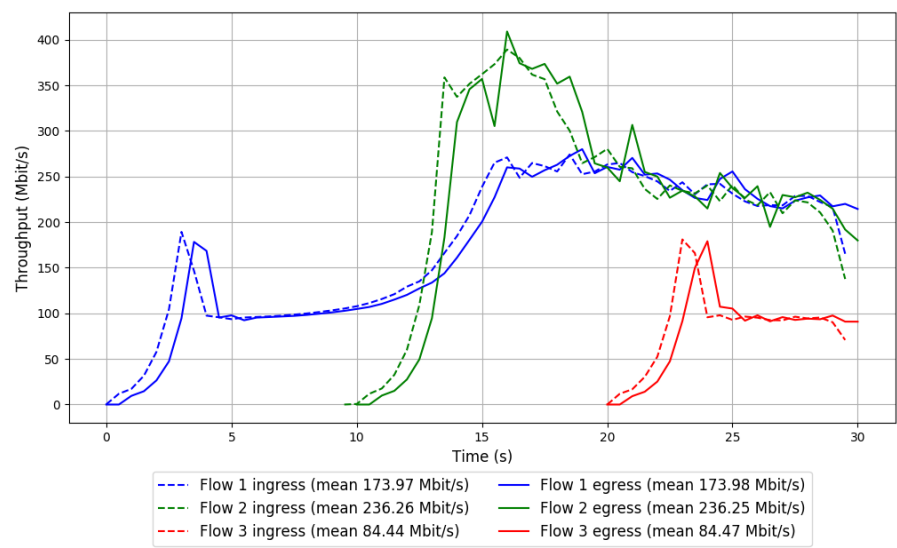


Run 10: Statistics of PCC-Expr

Start at: 2018-06-18 16:33:23
End at: 2018-06-18 16:33:53
Local clock offset: -0.028 ms
Remote clock offset: -0.331 ms

Below is generated by plot.py at 2018-06-18 18:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.08 Mbit/s
95th percentile per-packet one-way delay: 166.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.98 Mbit/s
95th percentile per-packet one-way delay: 155.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 236.25 Mbit/s
95th percentile per-packet one-way delay: 178.411 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.47 Mbit/s
95th percentile per-packet one-way delay: 153.060 ms
Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-18 12:56:26

End at: 2018-06-18 12:56:56

Local clock offset: -1.157 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 113.927 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 114.216 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 113.800 ms

Loss rate: 0.00%

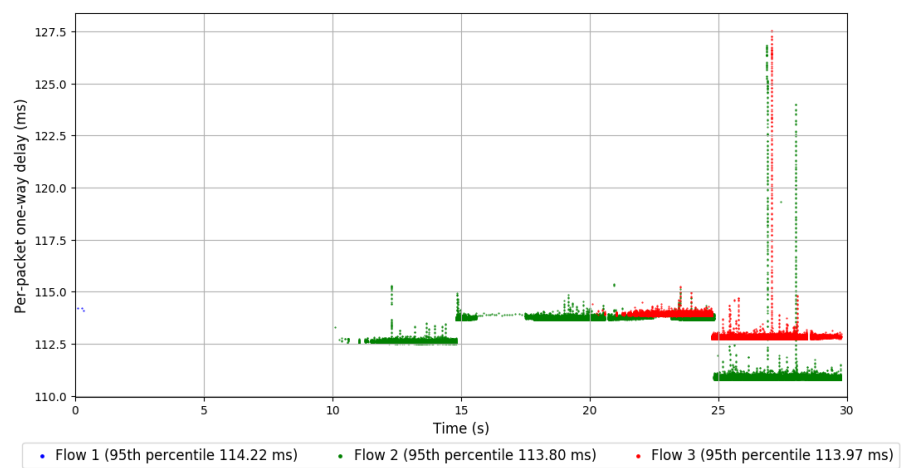
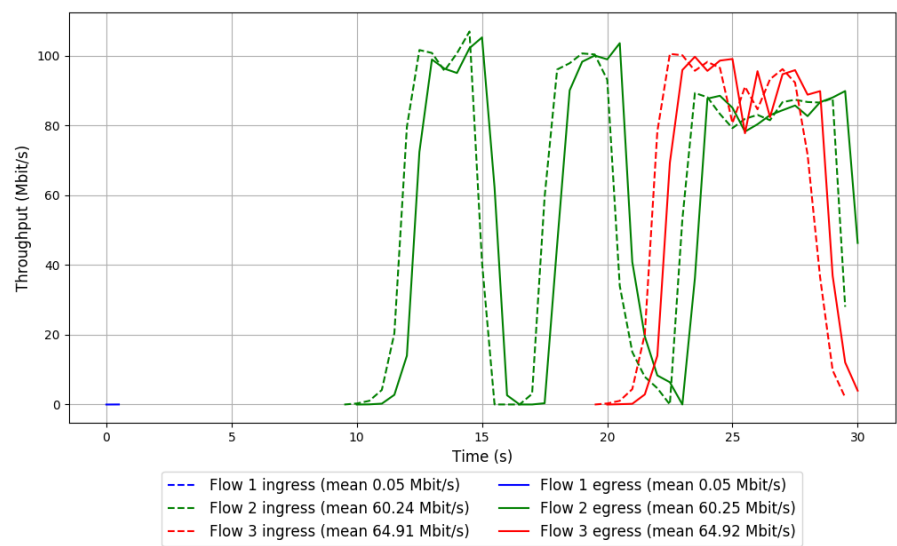
-- Flow 3:

Average throughput: 64.92 Mbit/s

95th percentile per-packet one-way delay: 113.970 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-18 13:20:26

End at: 2018-06-18 13:20:56

Local clock offset: -1.194 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.98 Mbit/s

95th percentile per-packet one-way delay: 113.991 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.78 Mbit/s

95th percentile per-packet one-way delay: 114.017 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.21 Mbit/s

95th percentile per-packet one-way delay: 113.425 ms

Loss rate: 0.00%

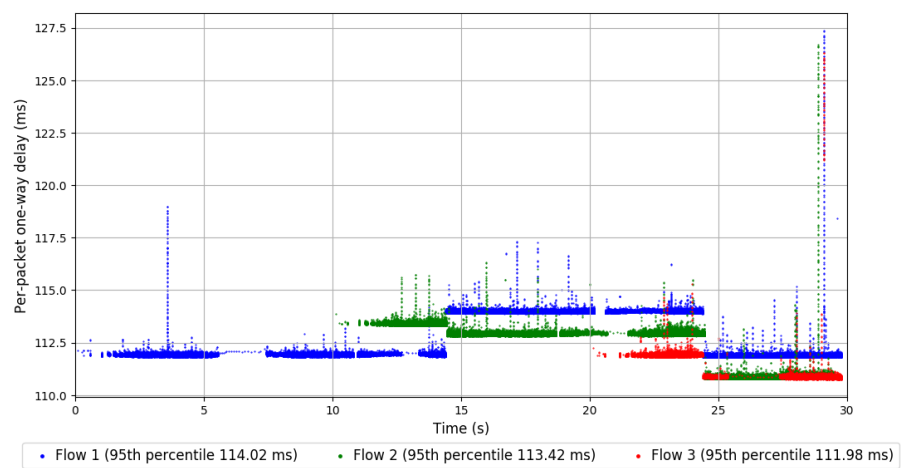
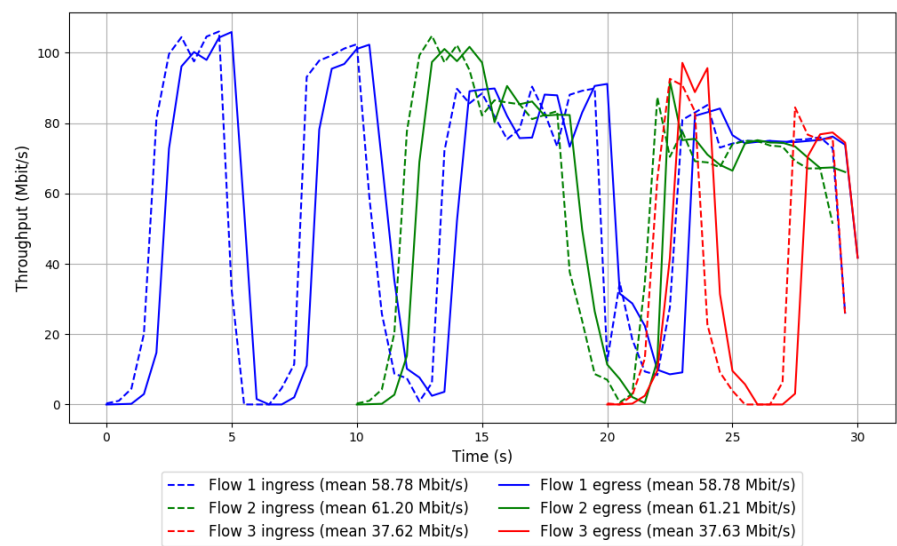
-- Flow 3:

Average throughput: 37.63 Mbit/s

95th percentile per-packet one-way delay: 111.983 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-18 13:44:22

End at: 2018-06-18 13:44:52

Local clock offset: -0.072 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.84 Mbit/s

95th percentile per-packet one-way delay: 113.016 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 112.850 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 112.259 ms

Loss rate: 0.00%

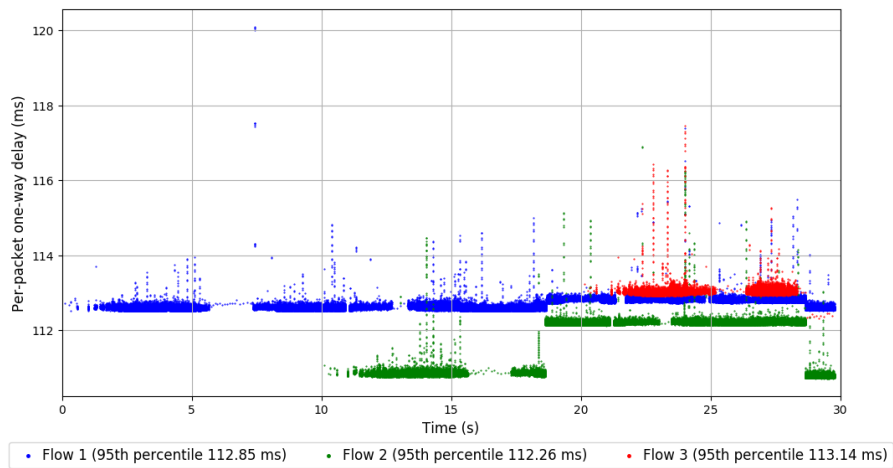
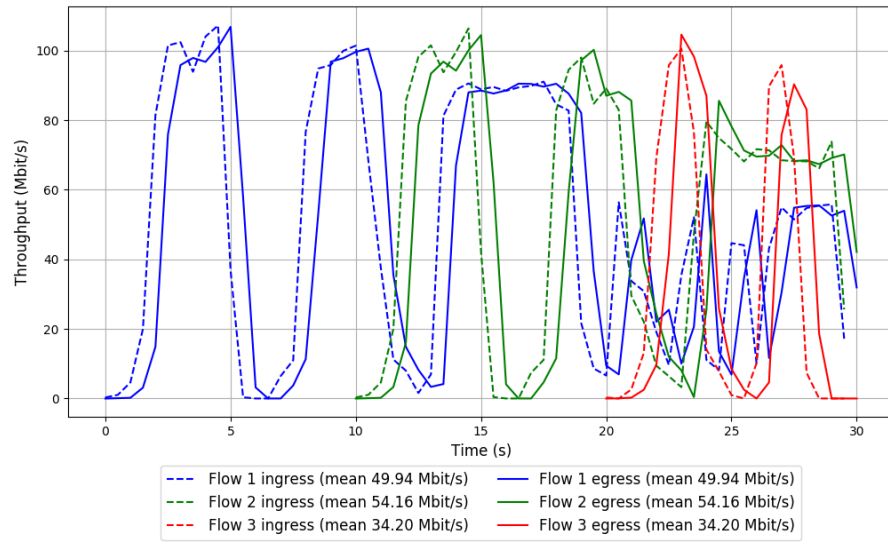
-- Flow 3:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 113.142 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-18 14:08:15

End at: 2018-06-18 14:08:45

Local clock offset: 1.513 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.37 Mbit/s

95th percentile per-packet one-way delay: 110.735 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.87 Mbit/s

95th percentile per-packet one-way delay: 109.175 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.85 Mbit/s

95th percentile per-packet one-way delay: 110.715 ms

Loss rate: 0.00%

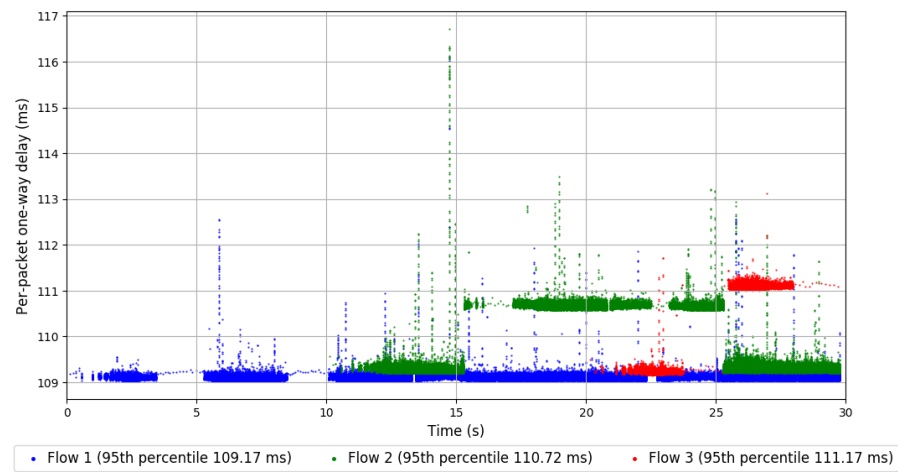
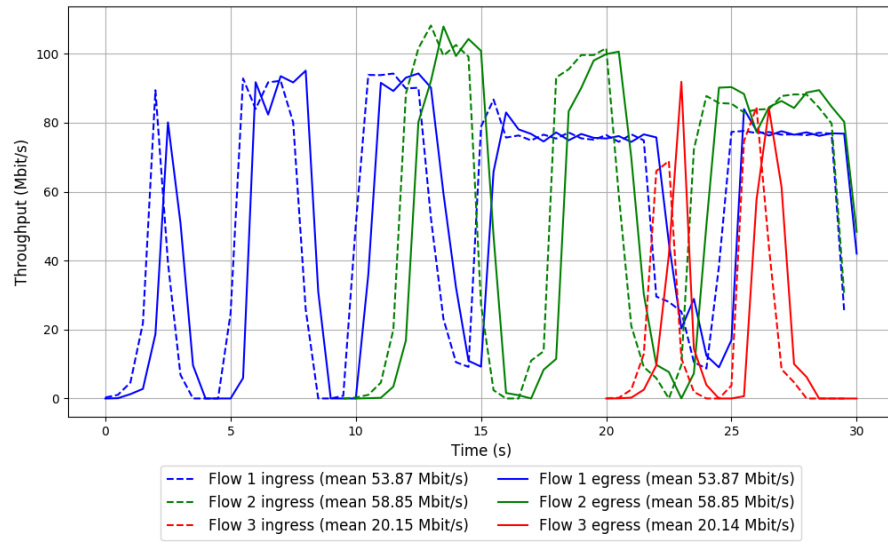
-- Flow 3:

Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 111.174 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-18 14:32:48

End at: 2018-06-18 14:33:18

Local clock offset: 1.039 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.82 Mbit/s

95th percentile per-packet one-way delay: 111.625 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 111.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 110.728 ms

Loss rate: 0.00%

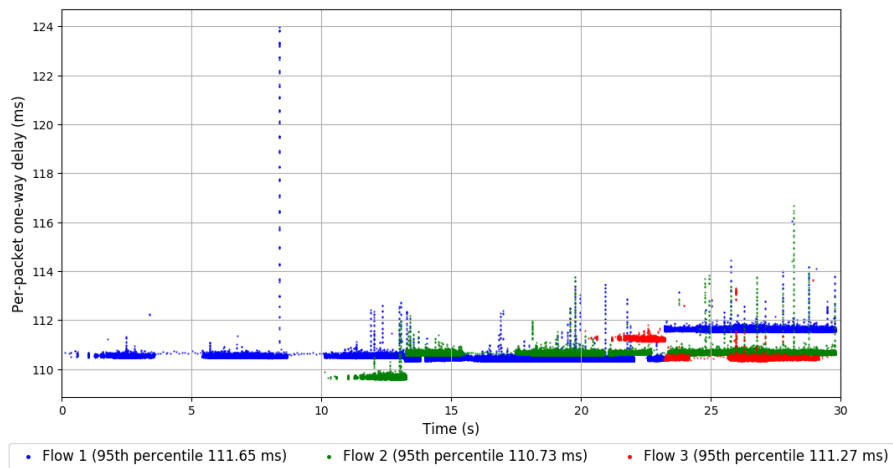
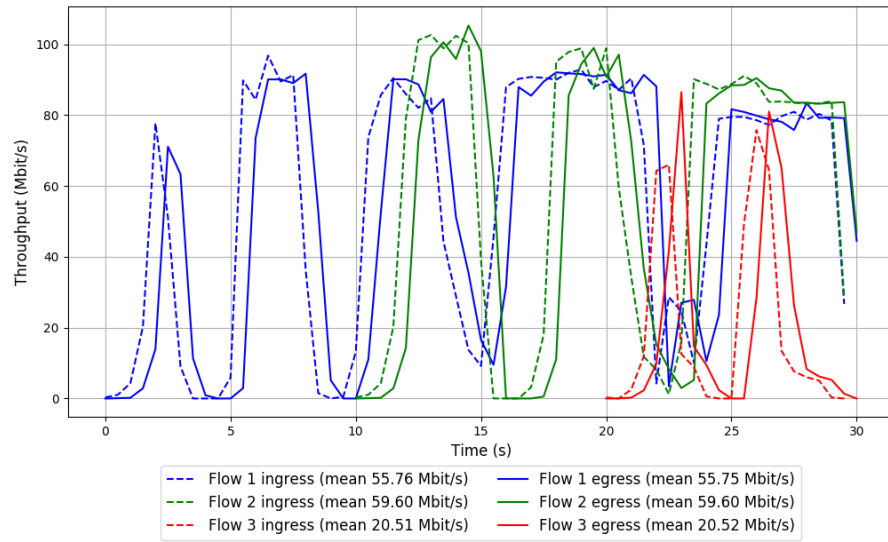
-- Flow 3:

Average throughput: 20.52 Mbit/s

95th percentile per-packet one-way delay: 111.272 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

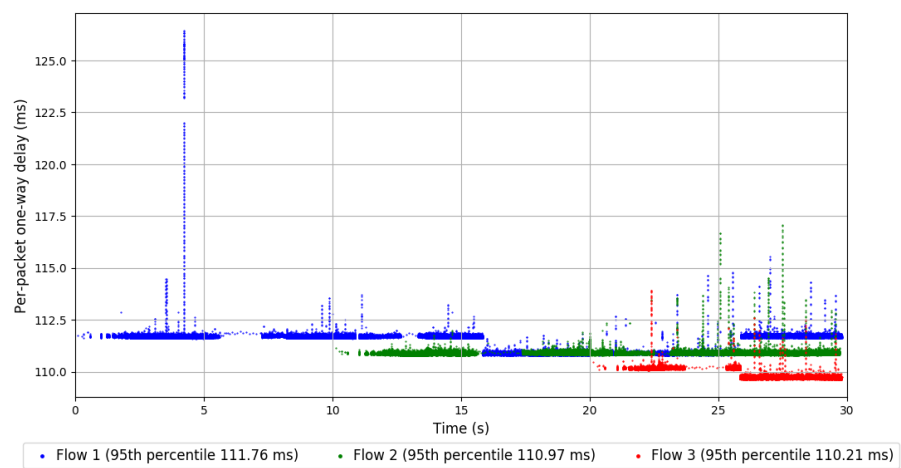
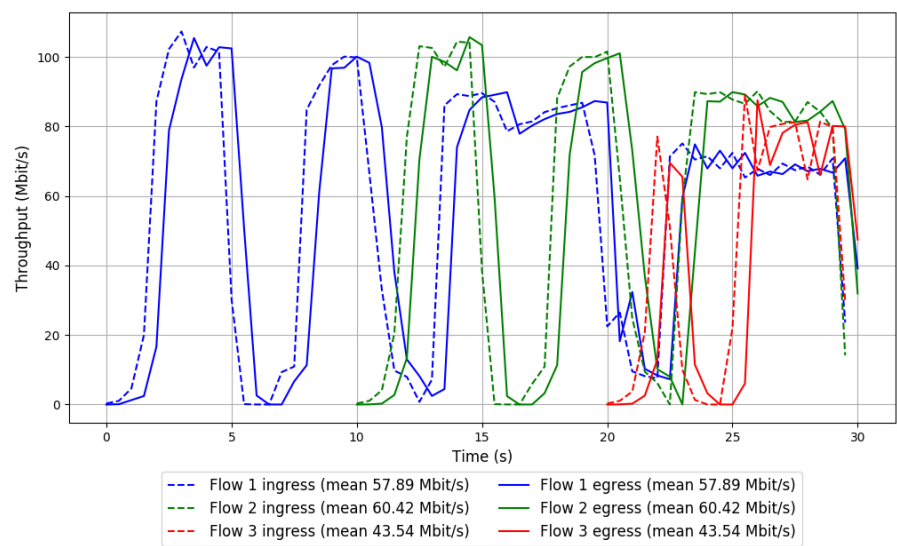


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-18 14:56:55
End at: 2018-06-18 14:57:25
Local clock offset: 0.136 ms
Remote clock offset: -0.368 ms

Below is generated by plot.py at 2018-06-18 18:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 111.92 Mbit/s
95th percentile per-packet one-way delay: 111.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 111.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 110.971 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.54 Mbit/s
95th percentile per-packet one-way delay: 110.206 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-18 15:21:06

End at: 2018-06-18 15:21:36

Local clock offset: -0.059 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.69 Mbit/s

95th percentile per-packet one-way delay: 112.770 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.06 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.60 Mbit/s

95th percentile per-packet one-way delay: 112.805 ms

Loss rate: 0.00%

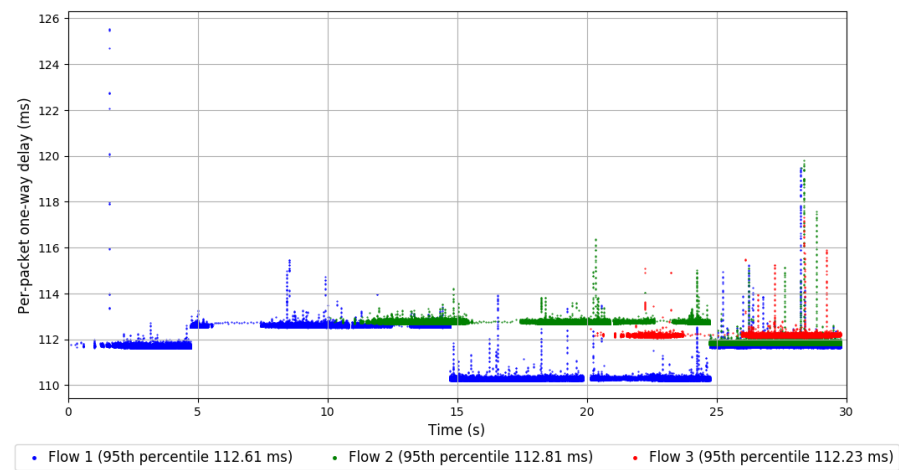
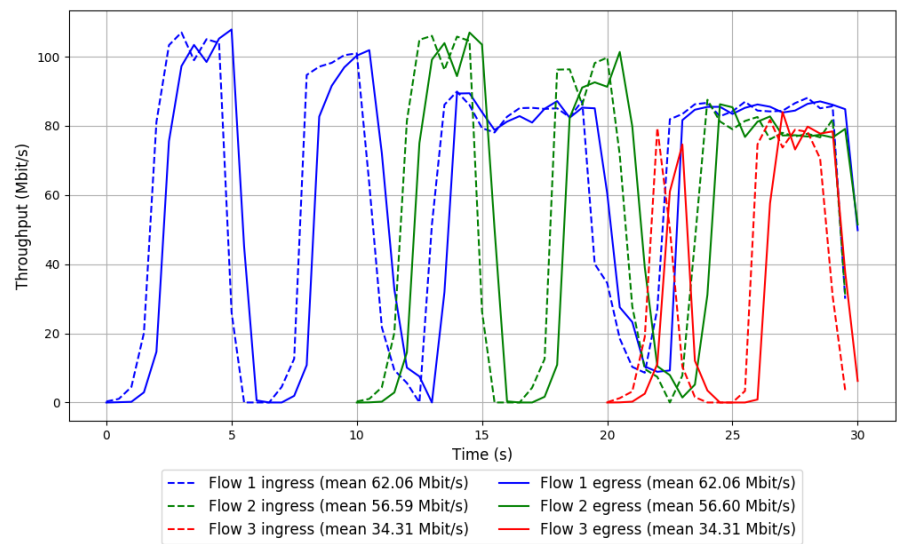
-- Flow 3:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 112.231 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

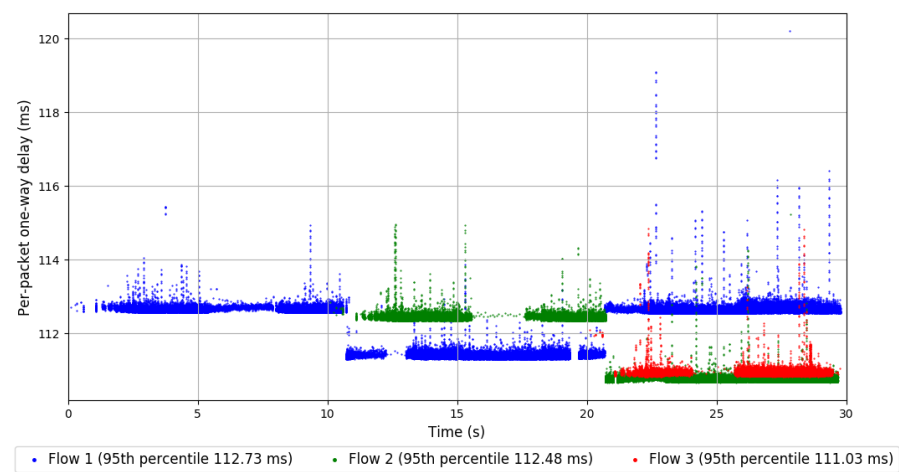
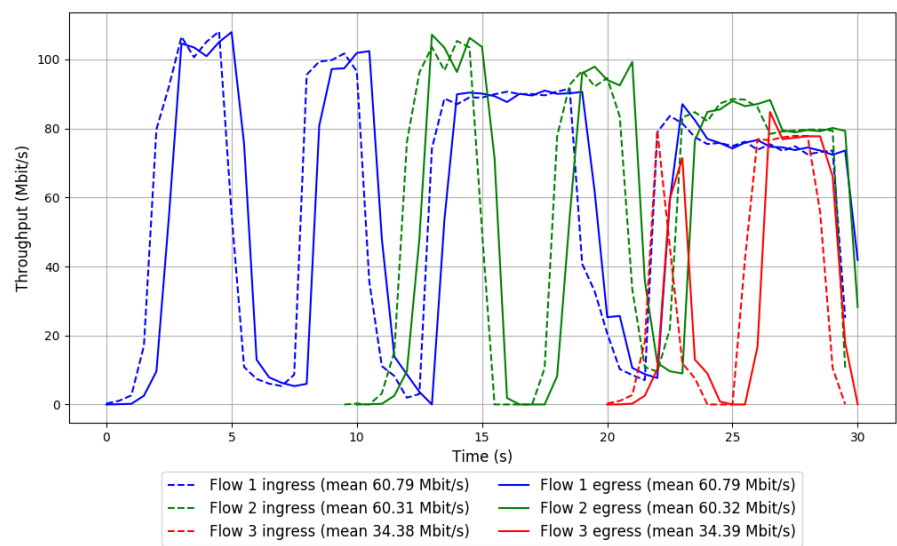


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-18 15:44:50
End at: 2018-06-18 15:45:20
Local clock offset: 0.146 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-18 18:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 111.75 Mbit/s
95th percentile per-packet one-way delay: 112.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.79 Mbit/s
95th percentile per-packet one-way delay: 112.728 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 112.484 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 111.034 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-18 16:08:26

End at: 2018-06-18 16:08:56

Local clock offset: 0.315 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.76 Mbit/s

95th percentile per-packet one-way delay: 114.507 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 114.538 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 57.45 Mbit/s

95th percentile per-packet one-way delay: 112.435 ms

Loss rate: 0.00%

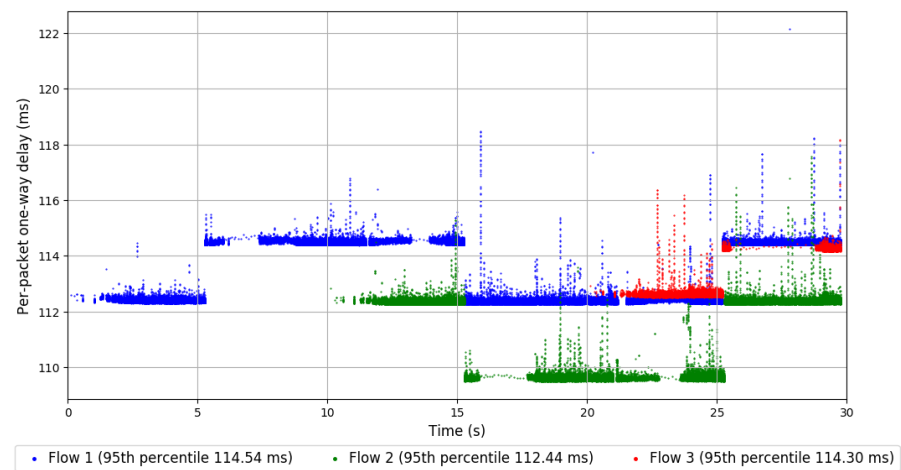
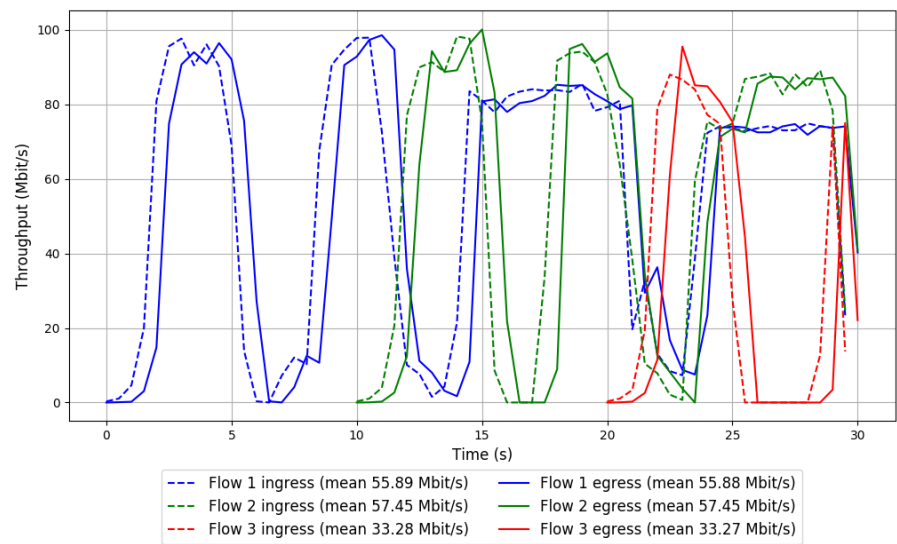
-- Flow 3:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 114.298 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-18 16:32:03

End at: 2018-06-18 16:32:33

Local clock offset: -0.331 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.27 Mbit/s

95th percentile per-packet one-way delay: 113.075 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.13 Mbit/s

95th percentile per-packet one-way delay: 115.085 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 112.843 ms

Loss rate: 0.00%

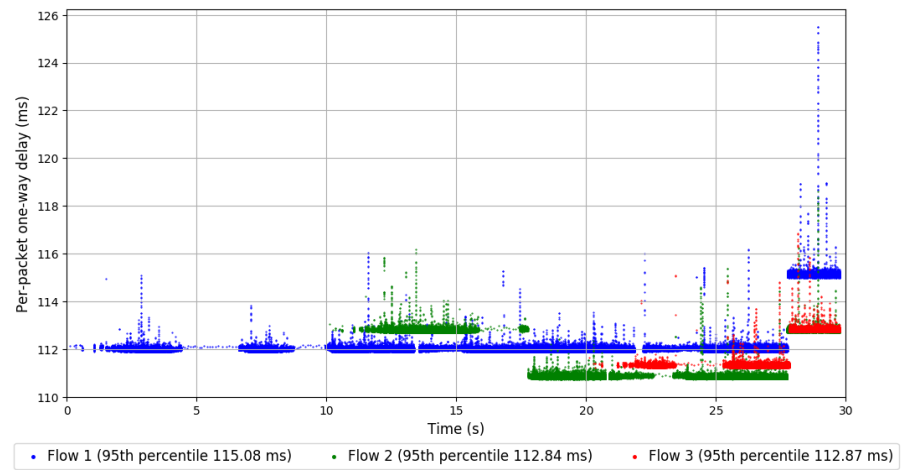
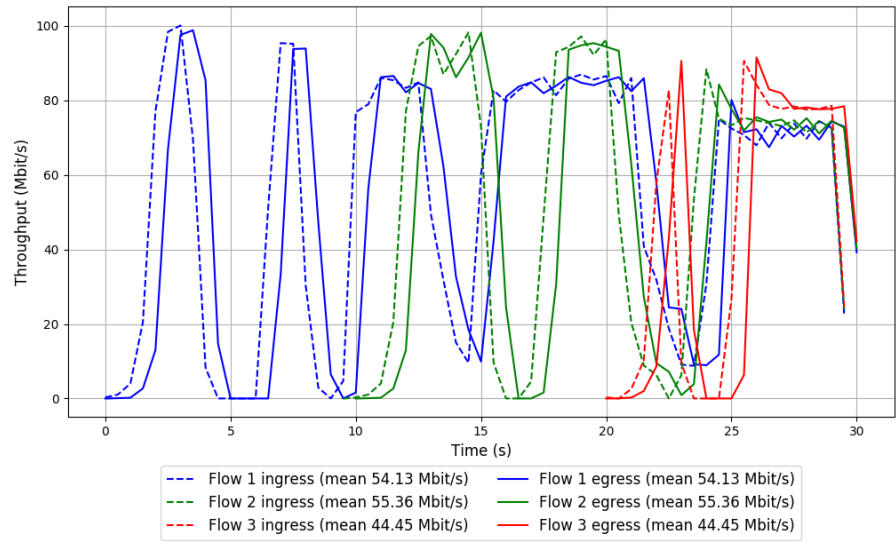
-- Flow 3:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 112.868 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

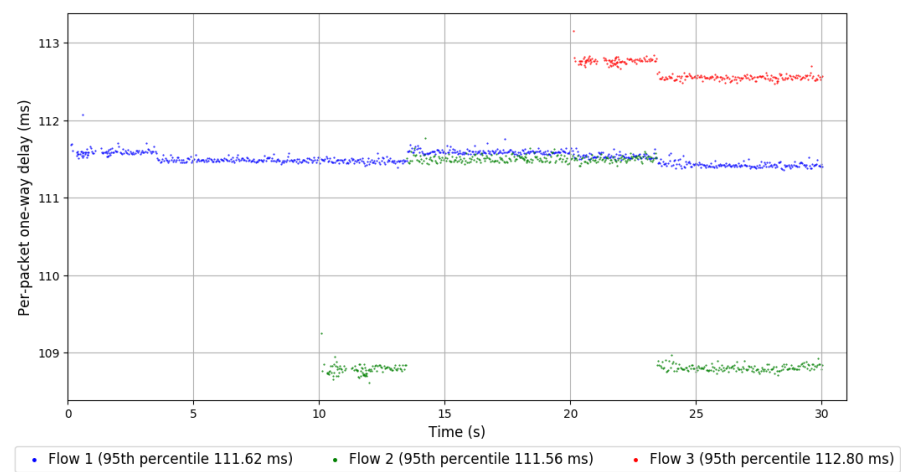
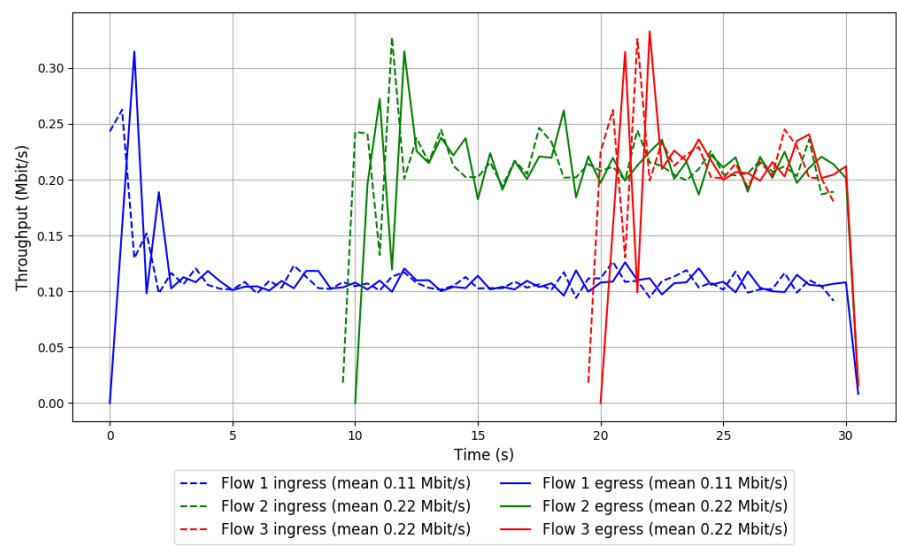


```
Run 1: Statistics of SReAM

Start at: 2018-06-18 12:48:47
End at: 2018-06-18 12:49:17
Local clock offset: 0.212 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 112.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 111.624 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.556 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.800 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

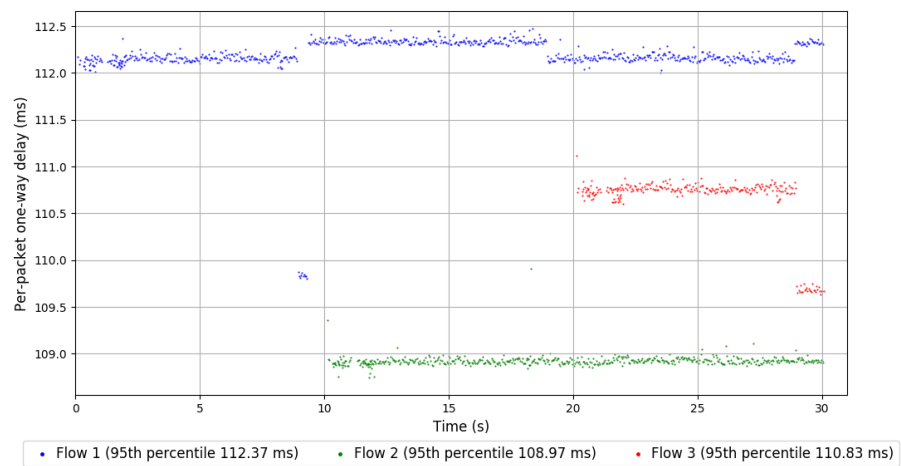
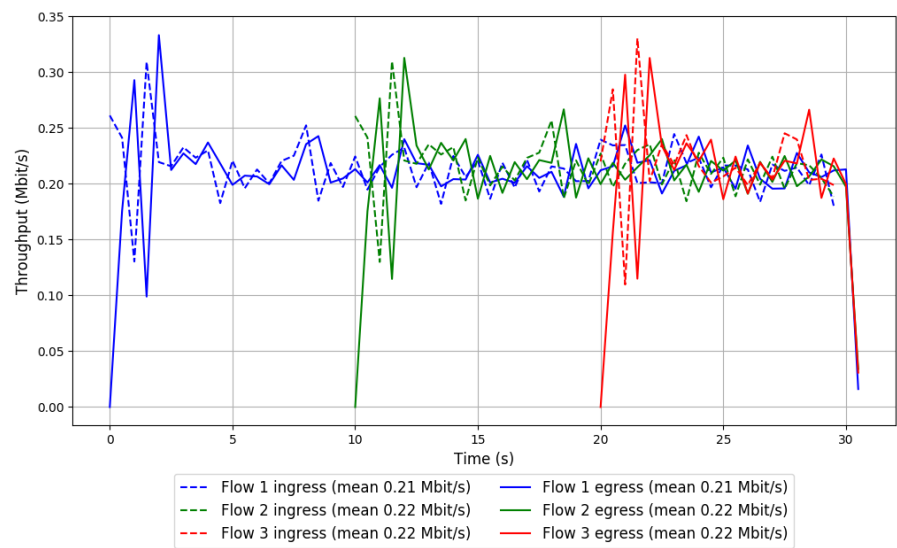


```
Run 2: Statistics of SReAM

Start at: 2018-06-18 13:12:42
End at: 2018-06-18 13:13:12
Local clock offset: 0.069 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.346 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.368 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.831 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

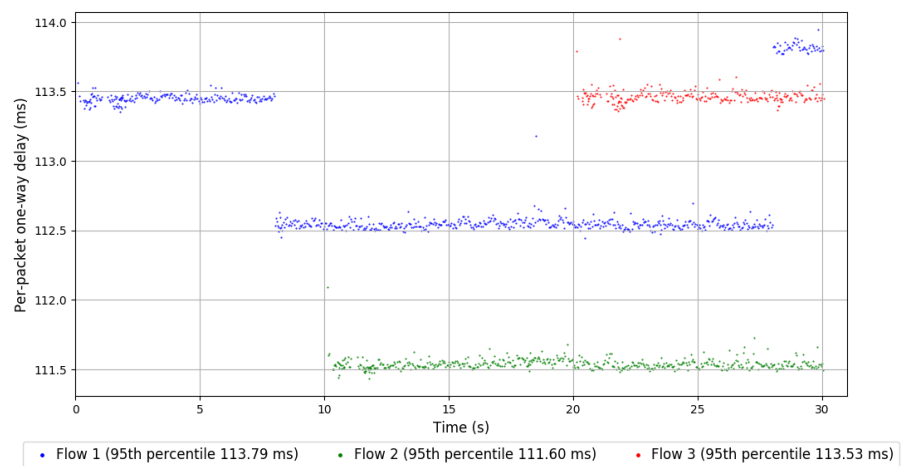
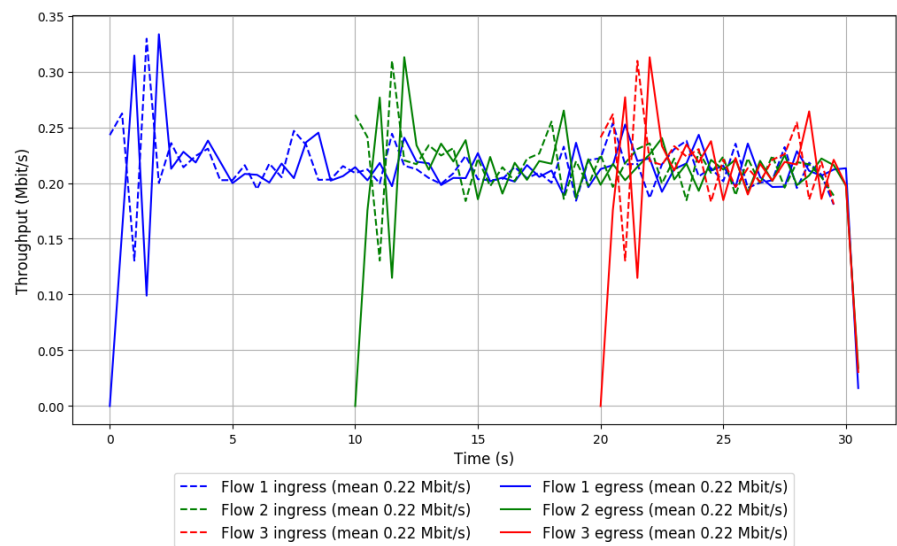


Run 3: Statistics of SReAM

Start at: 2018-06-18 13:36:43
End at: 2018-06-18 13:37:13
Local clock offset: -1.166 ms
Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-06-18 18:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 113.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.529 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

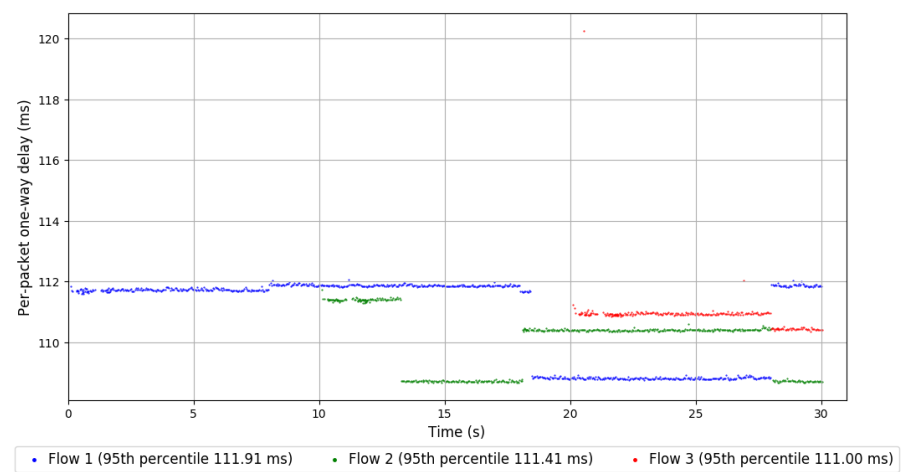
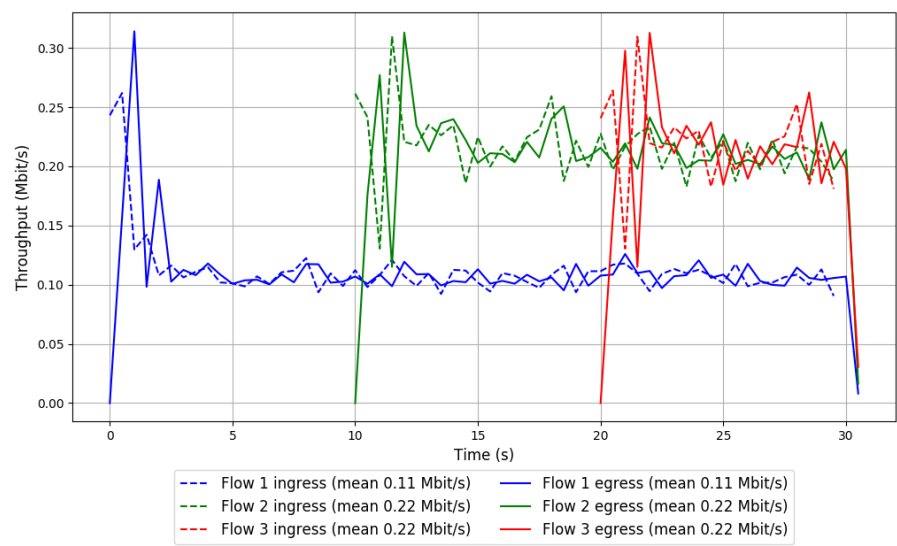


```
Run 4: Statistics of SReAM

Start at: 2018-06-18 14:00:33
End at: 2018-06-18 14:01:03
Local clock offset: 1.294 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 111.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 111.905 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.414 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.999 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-18 14:25:11

End at: 2018-06-18 14:25:41

Local clock offset: 1.371 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 111.172 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.661 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.260 ms

Loss rate: 0.00%

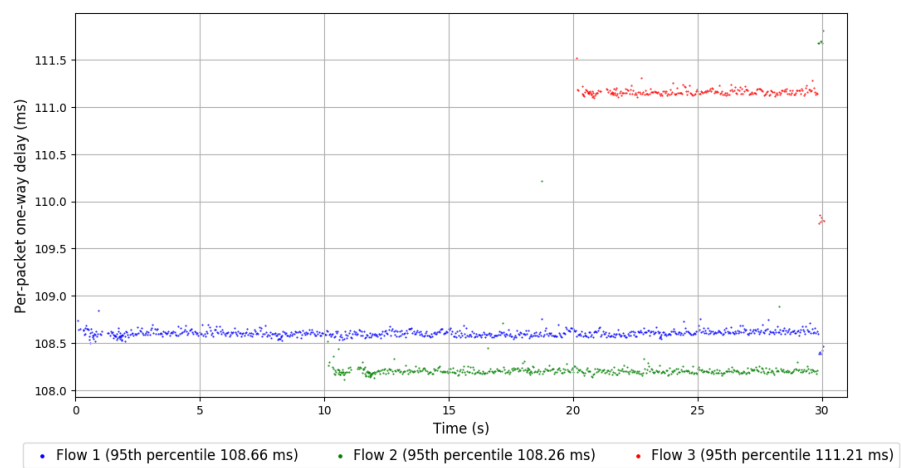
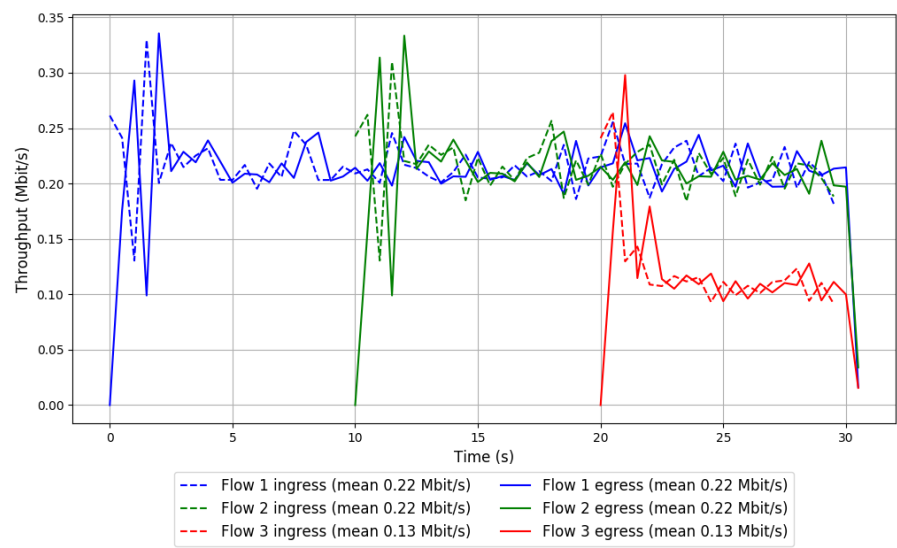
-- Flow 3:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 111.212 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-18 14:49:17

End at: 2018-06-18 14:49:47

Local clock offset: 0.017 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.307 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.322 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.301 ms

Loss rate: 0.00%

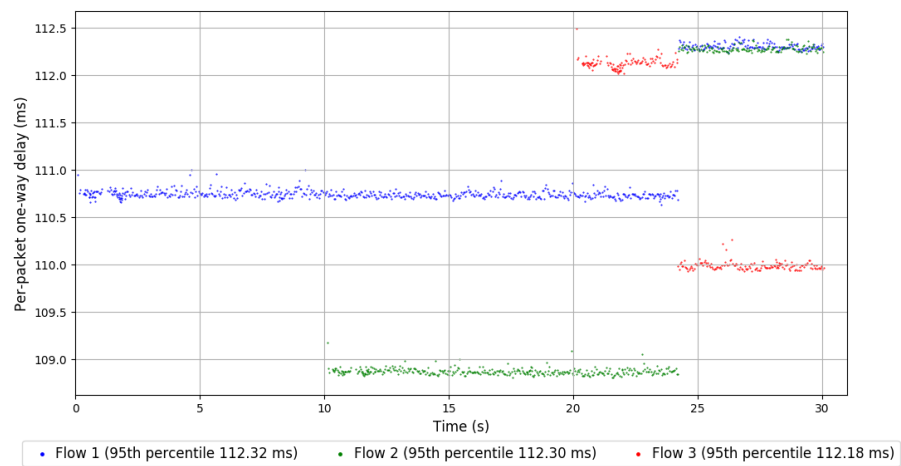
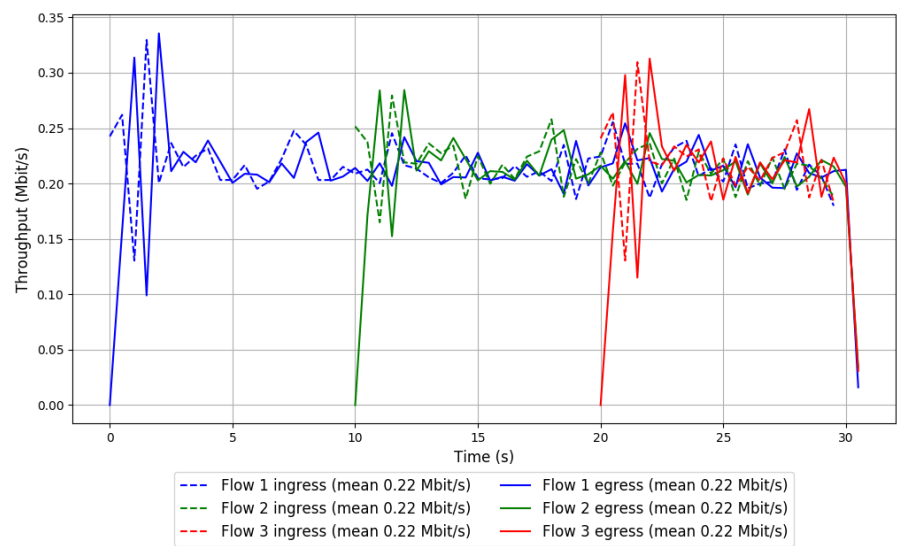
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.178 ms

Loss rate: 0.00%

Run 6: Report of SCSReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-06-18 15:13:25

End at: 2018-06-18 15:13:55

Local clock offset: 0.353 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.433 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.409 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.450 ms

Loss rate: 0.00%

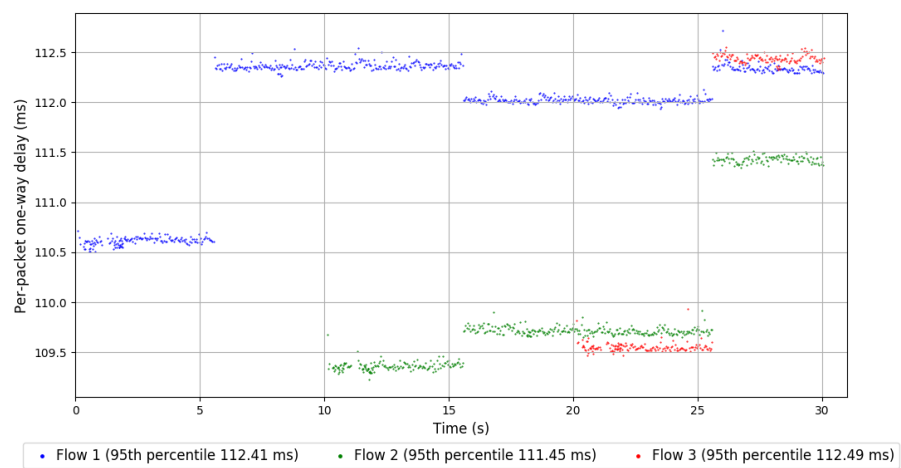
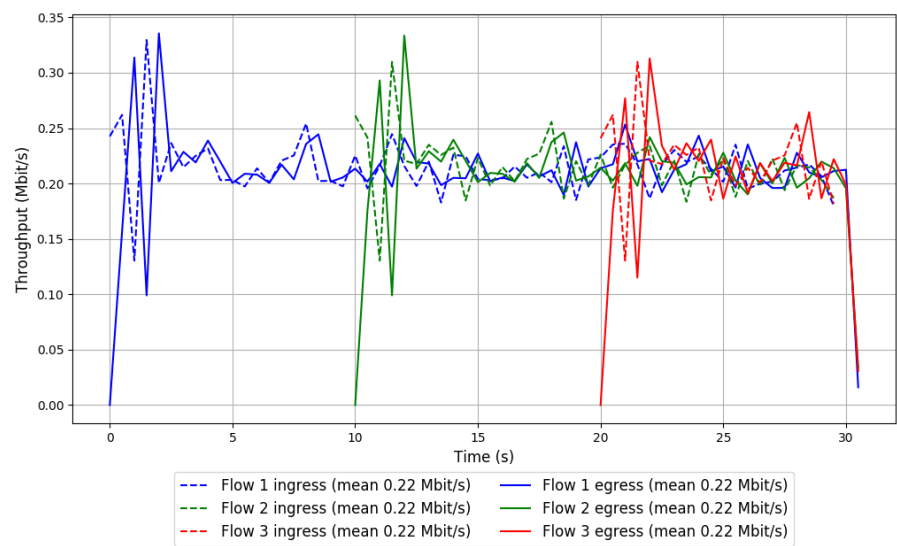
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.492 ms

Loss rate: 0.00%

Run 7: Report of SCRaM — Data Link

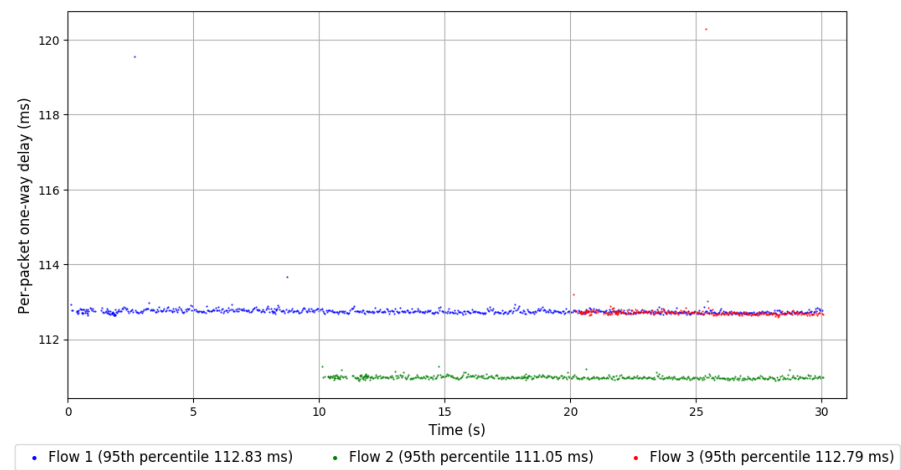
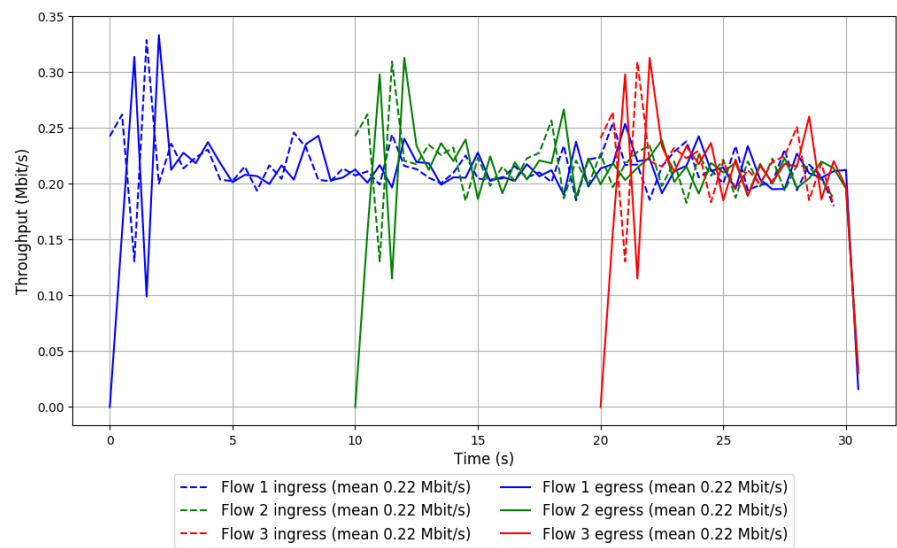


Run 8: Statistics of SReAM

Start at: 2018-06-18 15:37:12
End at: 2018-06-18 15:37:42
Local clock offset: -0.15 ms
Remote clock offset: -0.327 ms

Below is generated by plot.py at 2018-06-18 18:15:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.833 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.054 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.787 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-18 16:00:47

End at: 2018-06-18 16:01:17

Local clock offset: 0.054 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.750 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.714 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.595 ms

Loss rate: 0.00%

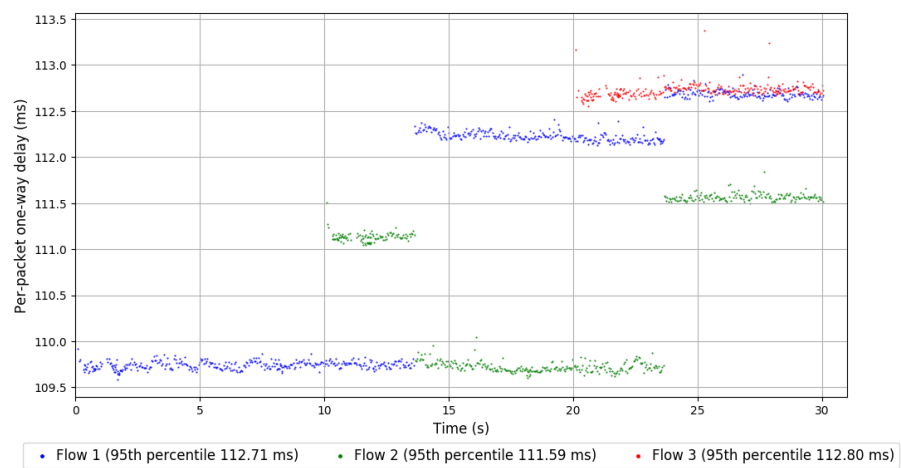
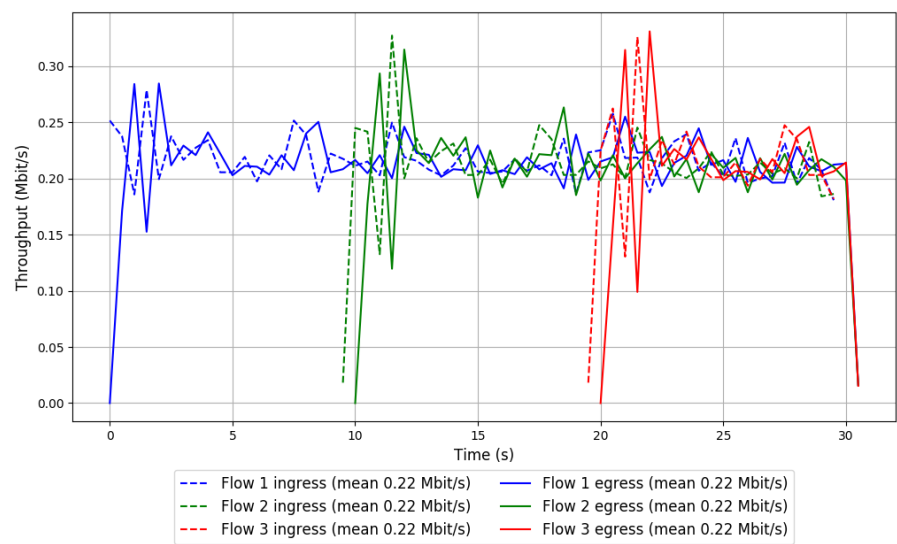
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.802 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-18 16:24:30

End at: 2018-06-18 16:25:00

Local clock offset: -0.299 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.241 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.239 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.245 ms

Loss rate: 0.00%

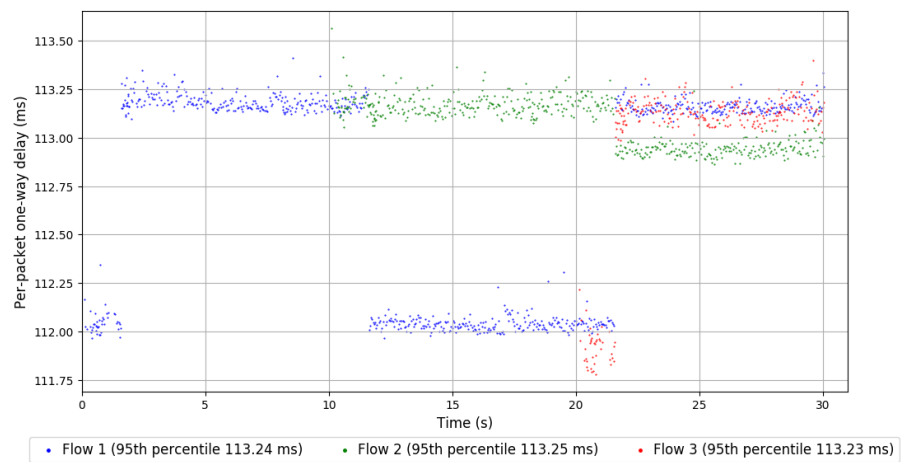
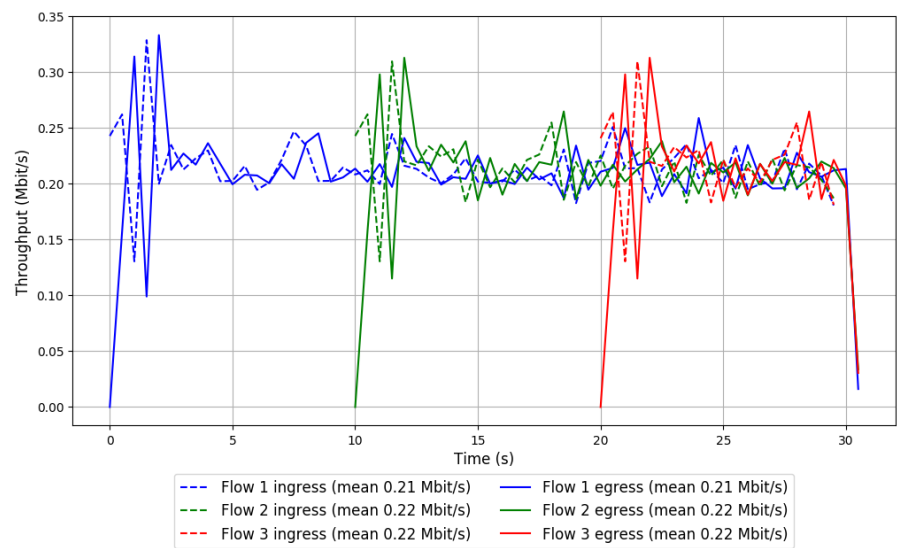
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.234 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-18 12:53:37

End at: 2018-06-18 12:54:07

Local clock offset: 1.2 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 111.771 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.801 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 110.560 ms

Loss rate: 0.00%

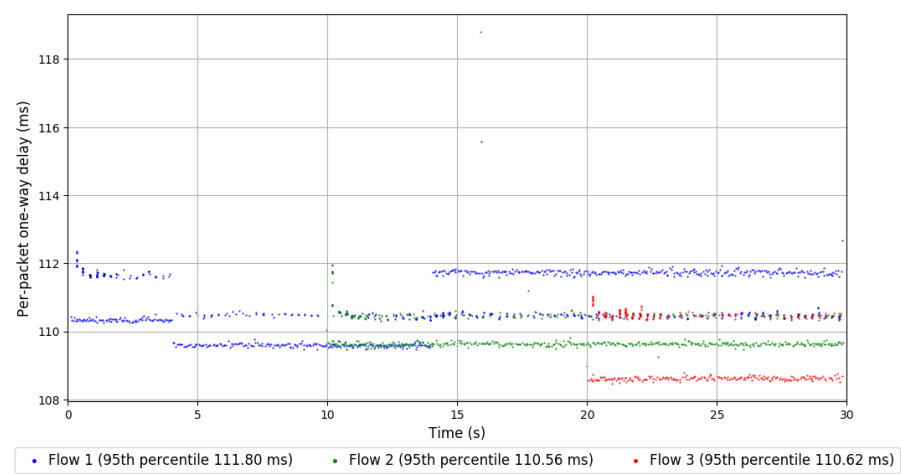
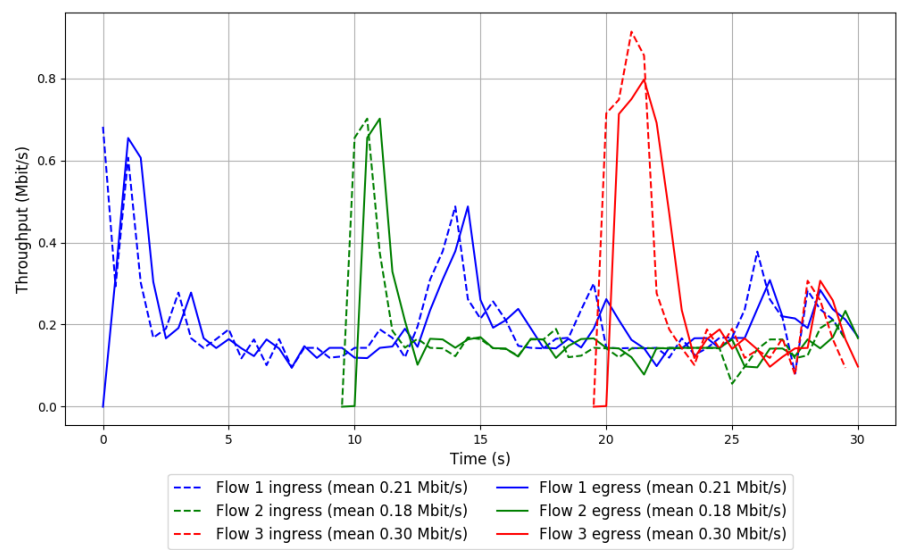
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 110.623 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

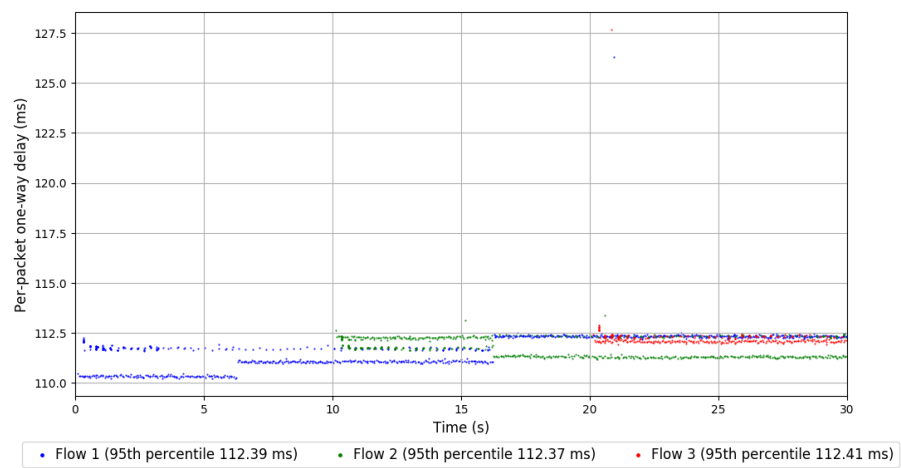
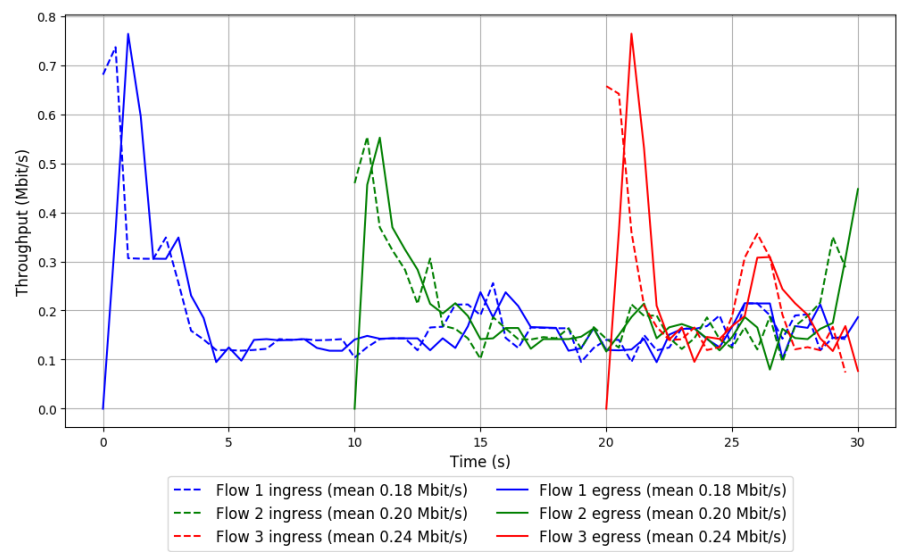


Run 2: Statistics of Sprout

Start at: 2018-06-18 13:17:35
End at: 2018-06-18 13:18:05
Local clock offset: 0.067 ms
Remote clock offset: -0.359 ms

```
# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 112.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 112.394 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 112.413 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

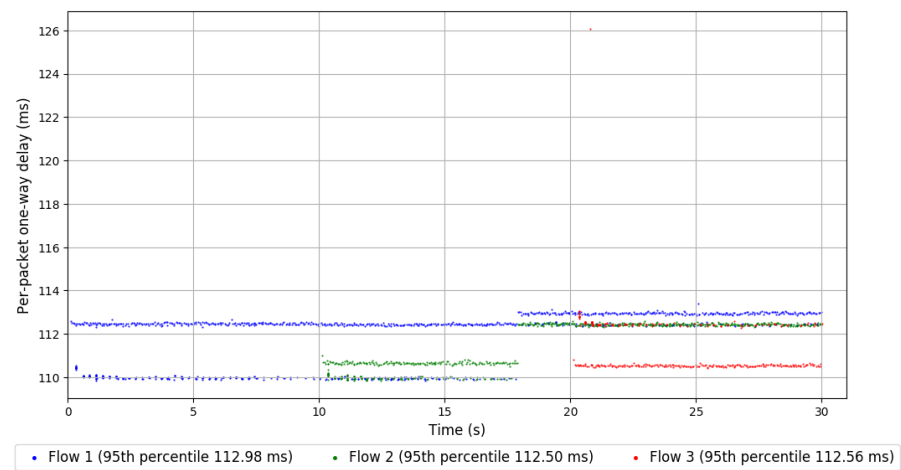
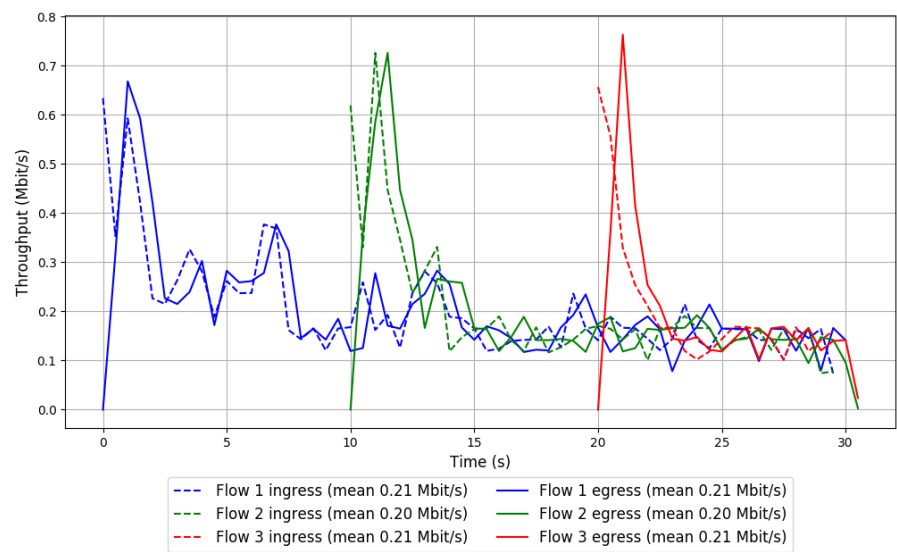


Run 3: Statistics of Sprout

Start at: 2018-06-18 13:41:33
End at: 2018-06-18 13:42:03
Local clock offset: -0.132 ms
Remote clock offset: -0.023 ms

```
# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 112.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.985 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.496 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.560 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

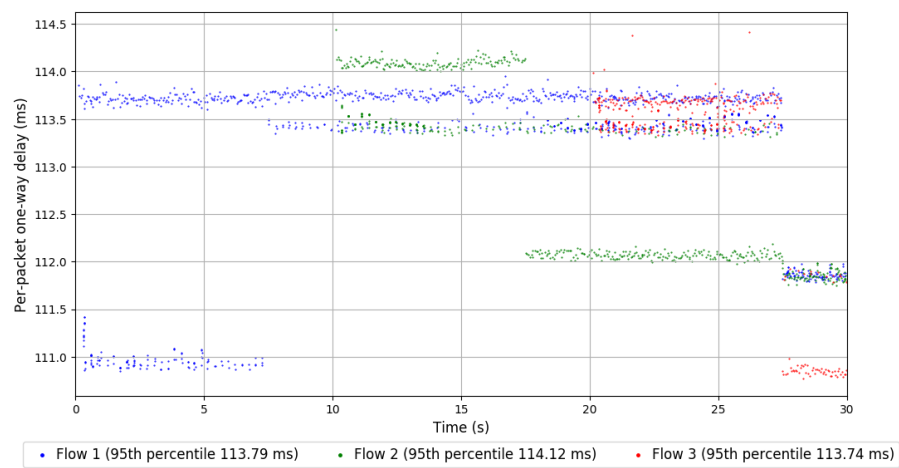
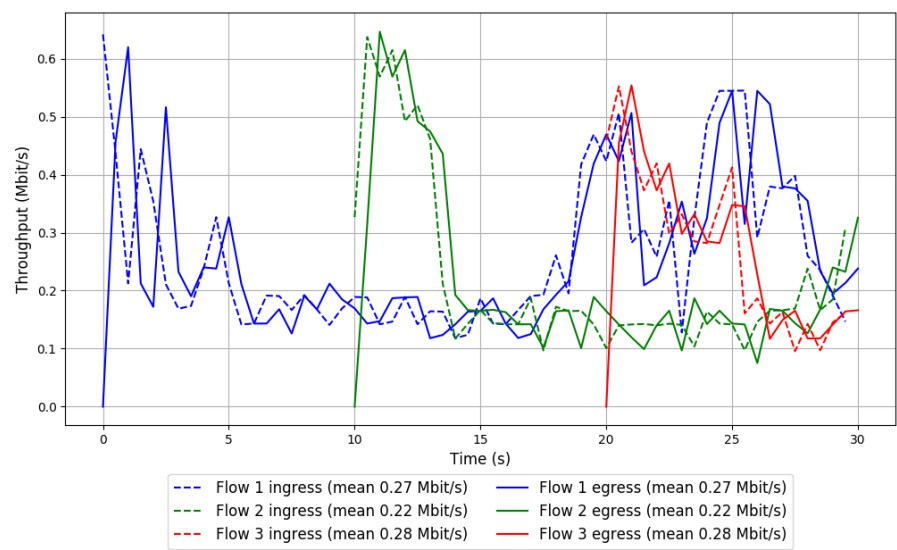


Run 4: Statistics of Sprout

Start at: 2018-06-18 14:05:24
End at: 2018-06-18 14:05:54
Local clock offset: -1.011 ms
Remote clock offset: 0.004 ms

```
# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 114.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 113.794 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.123 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 113.736 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

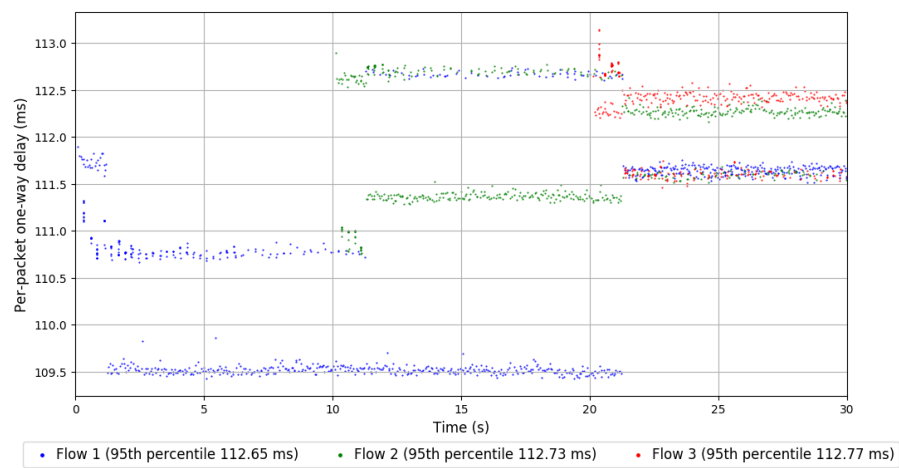
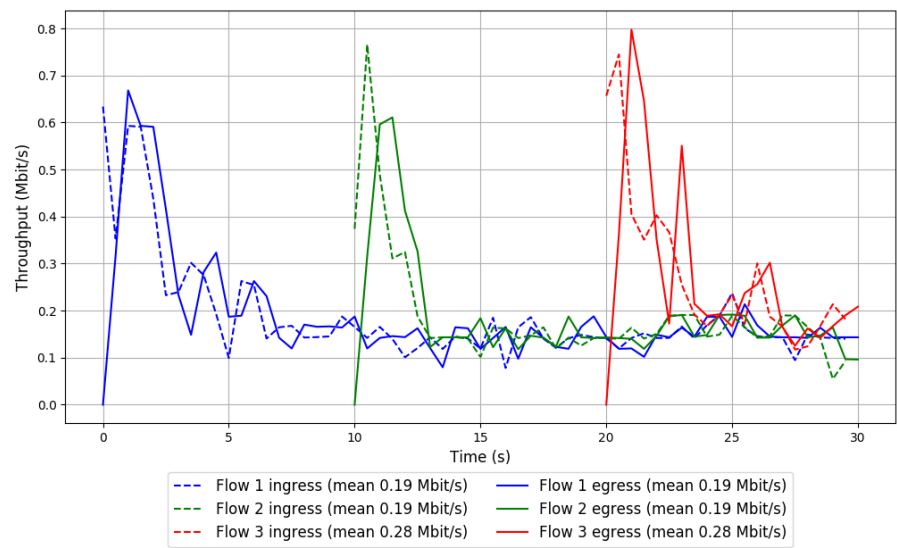


Run 5: Statistics of Sprout

Start at: 2018-06-18 14:30:00
End at: 2018-06-18 14:30:30
Local clock offset: 0.063 ms
Remote clock offset: 0.047 ms

```
# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 112.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.651 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 112.733 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 112.770 ms
Loss rate: 0.00%
```


Run 5: Report of Sprout — Data Link

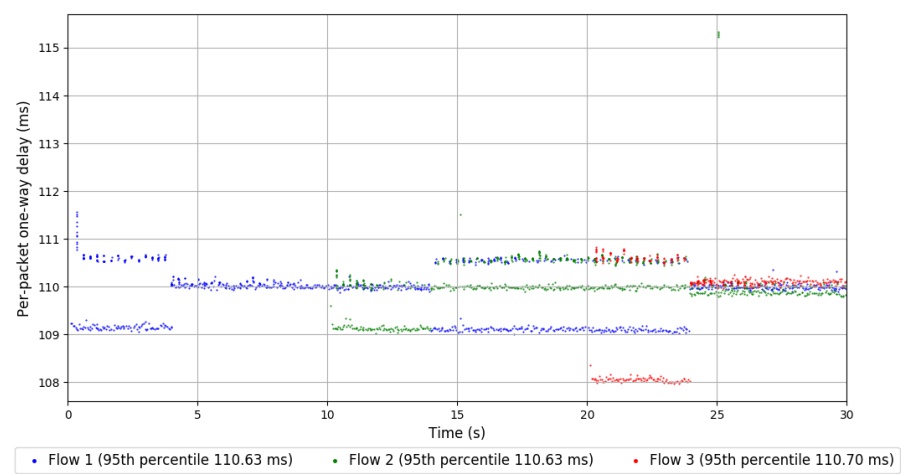
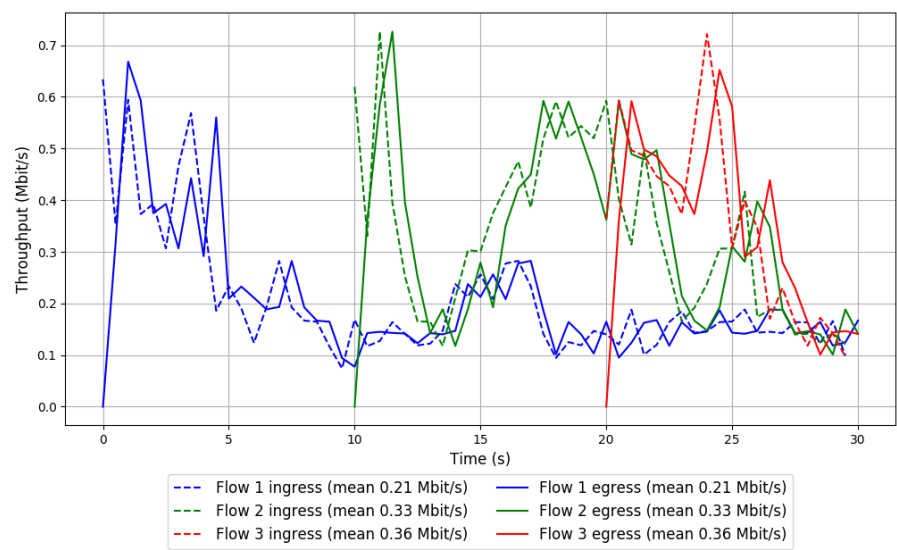


Run 6: Statistics of Sprout

Start at: 2018-06-18 14:54:07
End at: 2018-06-18 14:54:37
Local clock offset: 1.21 ms
Remote clock offset: -0.358 ms

```
# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 110.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 110.631 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 110.629 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 110.698 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

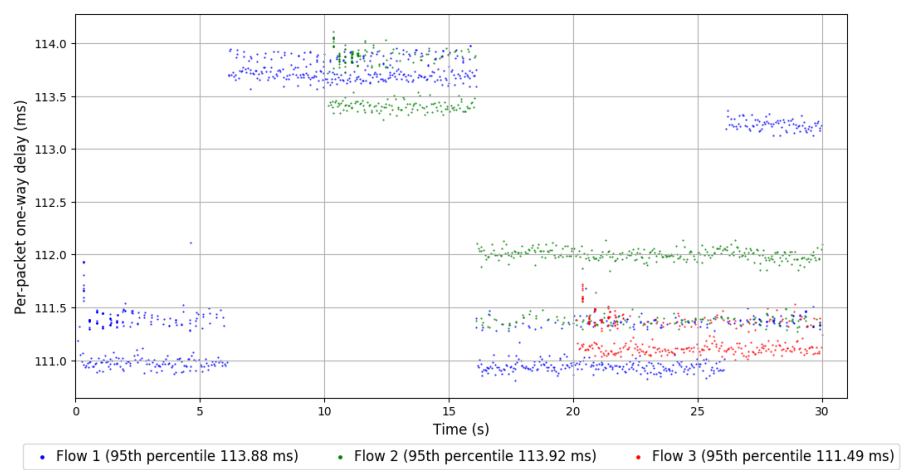
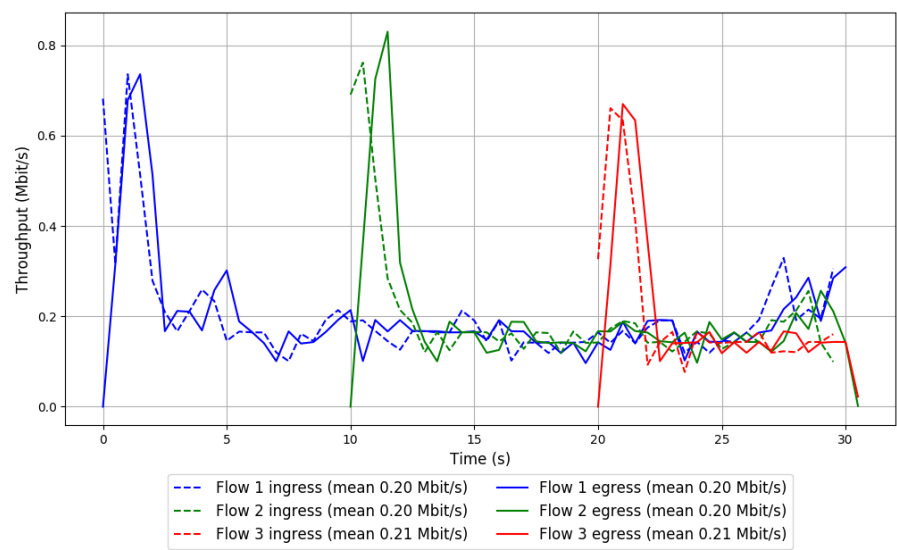


Run 7: Statistics of Sprout

Start at: 2018-06-18 15:18:15
End at: 2018-06-18 15:18:45
Local clock offset: -1.072 ms
Remote clock offset: 0.013 ms

```
# Below is generated by plot.py at 2018-06-18 18:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 113.887 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 113.881 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 113.922 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.493 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-18 15:42:02

End at: 2018-06-18 15:42:32

Local clock offset: 0.09 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-18 18:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 110.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 110.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 110.727 ms

Loss rate: 0.00%

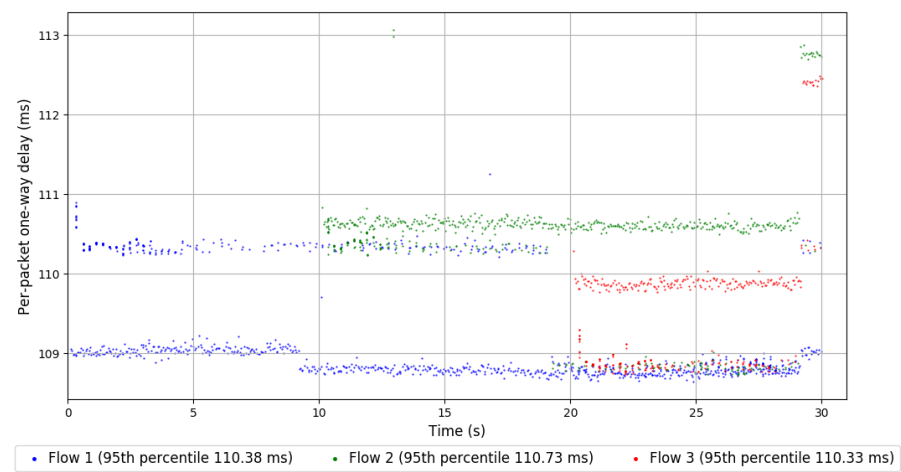
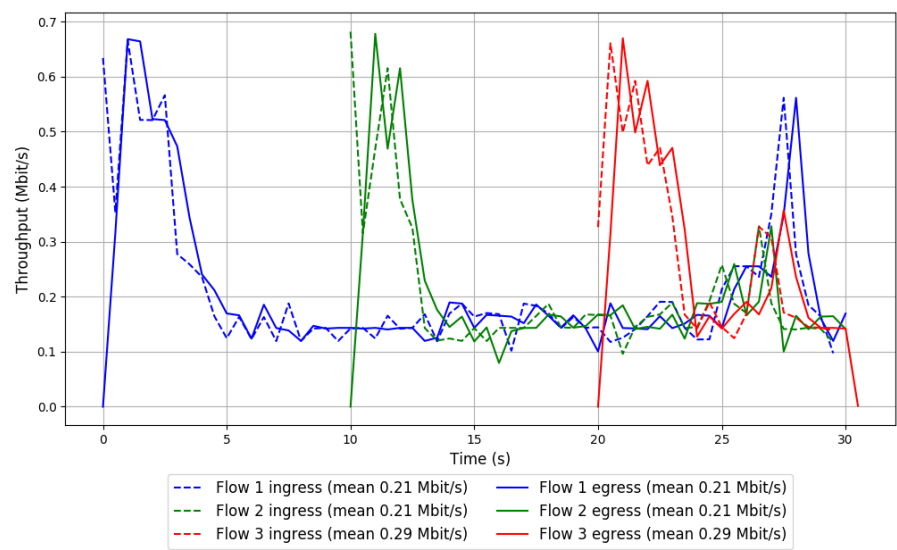
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 110.328 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

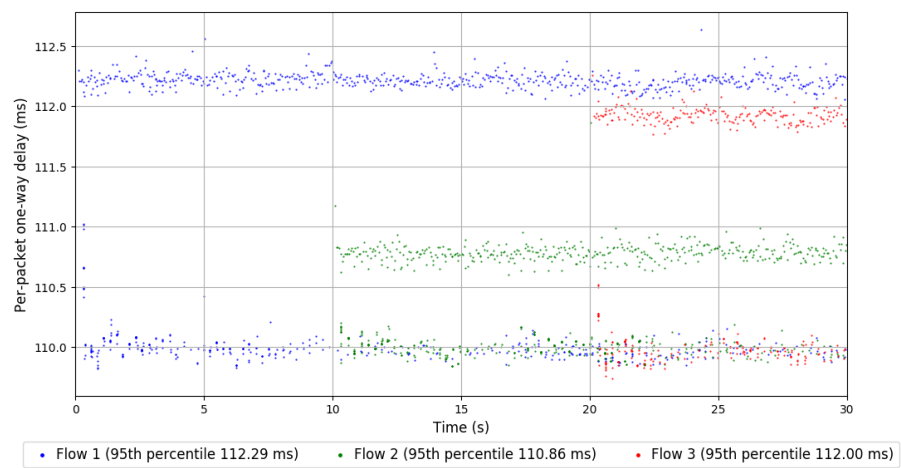
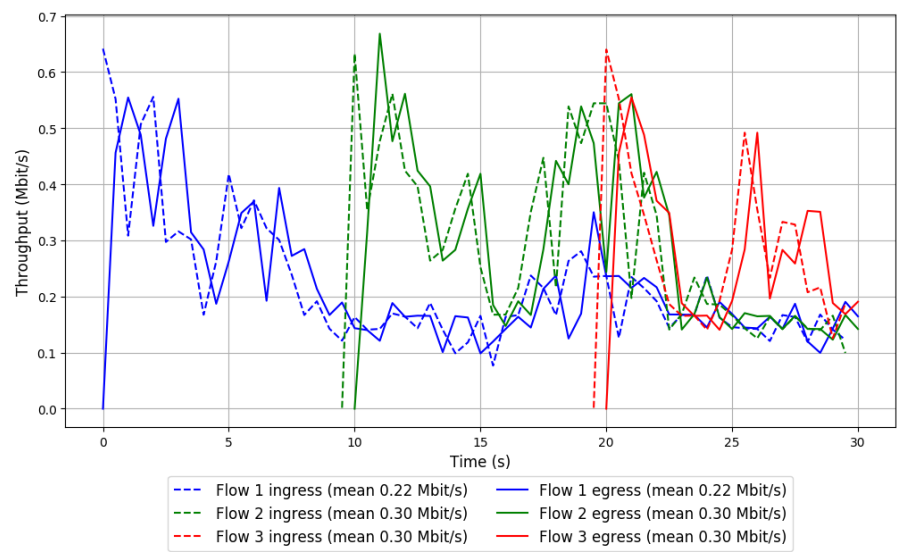


Run 9: Statistics of Sprout

Start at: 2018-06-18 16:05:37
End at: 2018-06-18 16:06:07
Local clock offset: -1.426 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-06-18 18:15:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 112.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 110.859 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 112.001 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

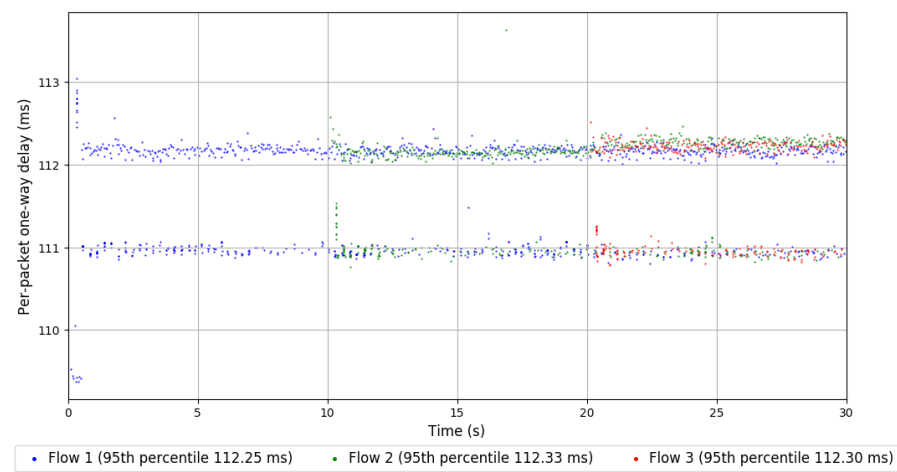
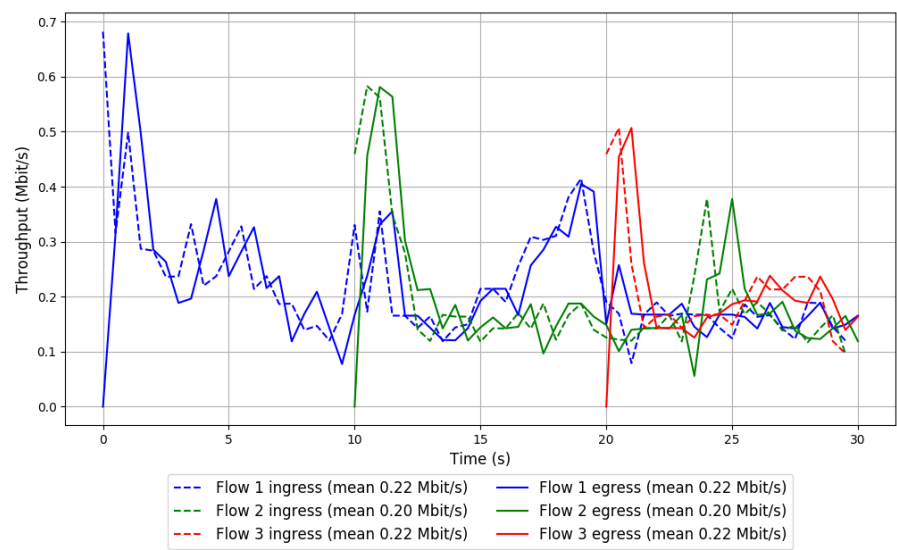


Run 10: Statistics of Sprout

Start at: 2018-06-18 16:29:11
End at: 2018-06-18 16:29:41
Local clock offset: 0.078 ms
Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-06-18 18:15:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 112.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.248 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.328 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.304 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

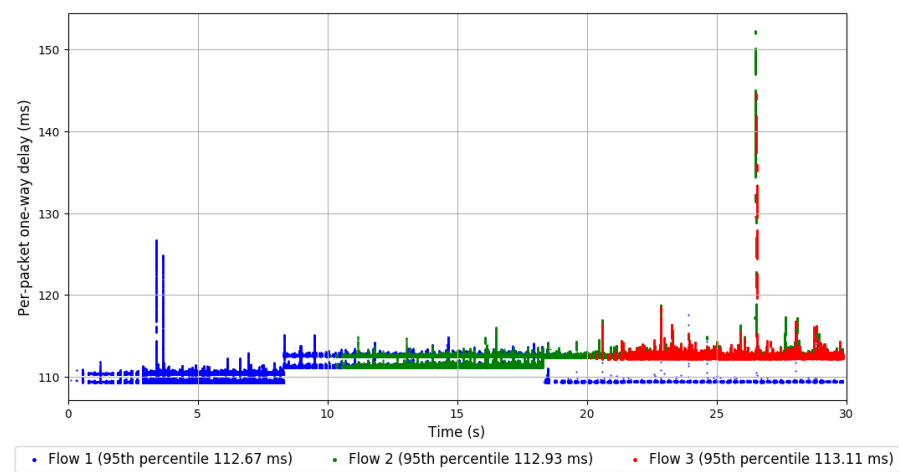
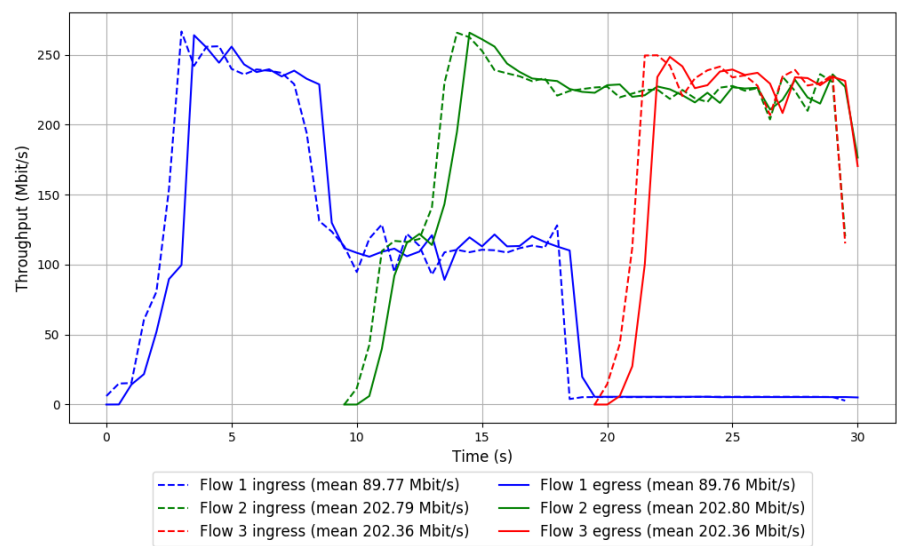


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 12:43:52
End at: 2018-06-18 12:44:22
Local clock offset: -0.057 ms
Remote clock offset: -0.316 ms

Below is generated by plot.py at 2018-06-18 18:21:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.55 Mbit/s
95th percentile per-packet one-way delay: 112.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 112.674 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.80 Mbit/s
95th percentile per-packet one-way delay: 112.929 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.36 Mbit/s
95th percentile per-packet one-way delay: 113.109 ms
Loss rate: 0.00%

Run 1: Report of TaoVA-100x — Data Link

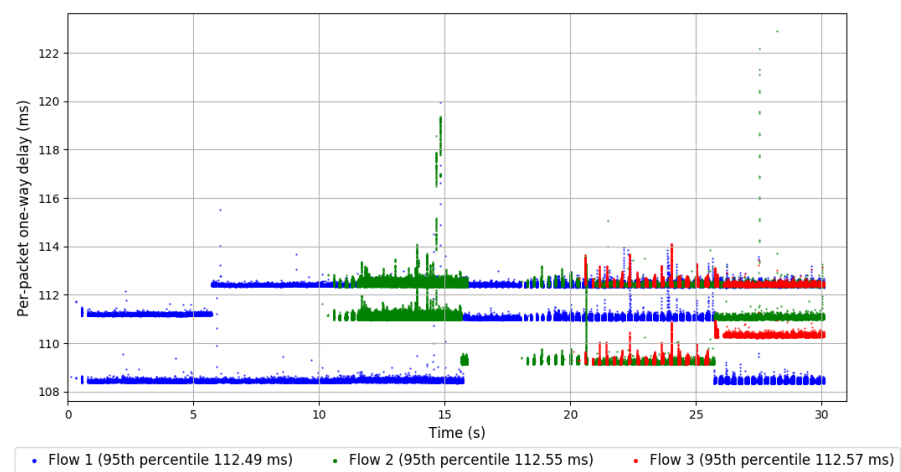
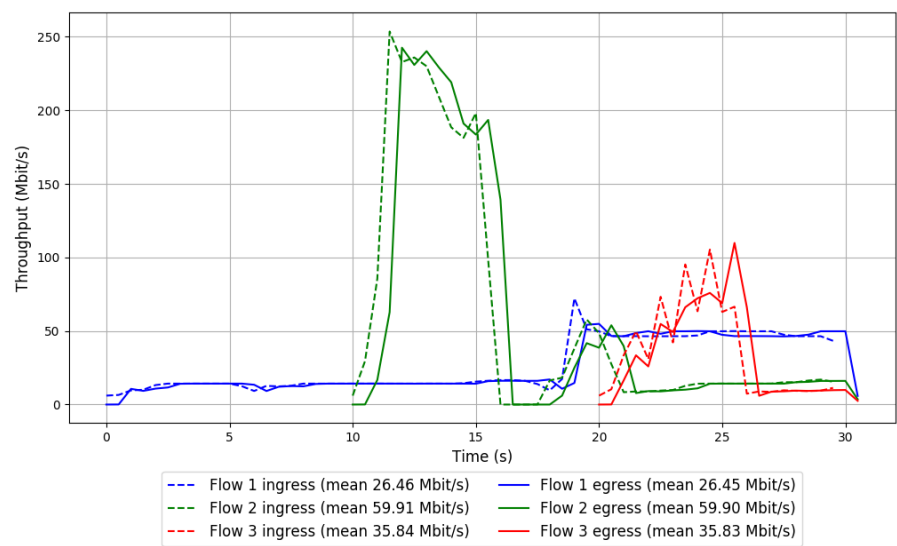


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-18 13:08:15
End at: 2018-06-18 13:08:45
Local clock offset: -0.044 ms
Remote clock offset: -0.377 ms

Below is generated by plot.py at 2018-06-18 18:21:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.25 Mbit/s
95th percentile per-packet one-way delay: 112.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 112.491 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 112.551 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.83 Mbit/s
95th percentile per-packet one-way delay: 112.574 ms
Loss rate: 0.00%

Run 2: Report of TaoVA-100x — Data Link

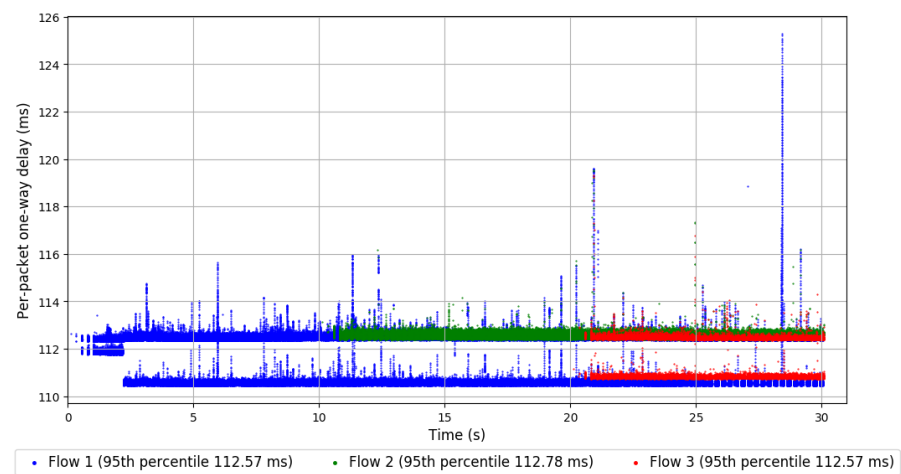
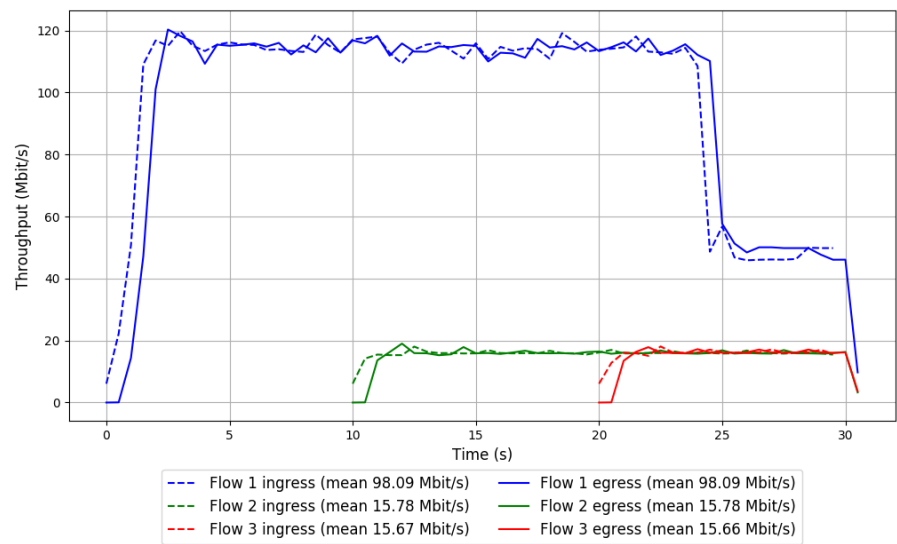


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-18 13:32:09
End at: 2018-06-18 13:32:39
Local clock offset: 0.197 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-18 18:21:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.68 Mbit/s
95th percentile per-packet one-way delay: 112.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.09 Mbit/s
95th percentile per-packet one-way delay: 112.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 112.783 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 112.572 ms
Loss rate: 0.01%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-18 13:56:04

End at: 2018-06-18 13:56:34

Local clock offset: -0.032 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-06-18 18:21:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.06 Mbit/s

95th percentile per-packet one-way delay: 112.819 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.00 Mbit/s

95th percentile per-packet one-way delay: 112.838 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.03 Mbit/s

95th percentile per-packet one-way delay: 112.555 ms

Loss rate: 0.00%

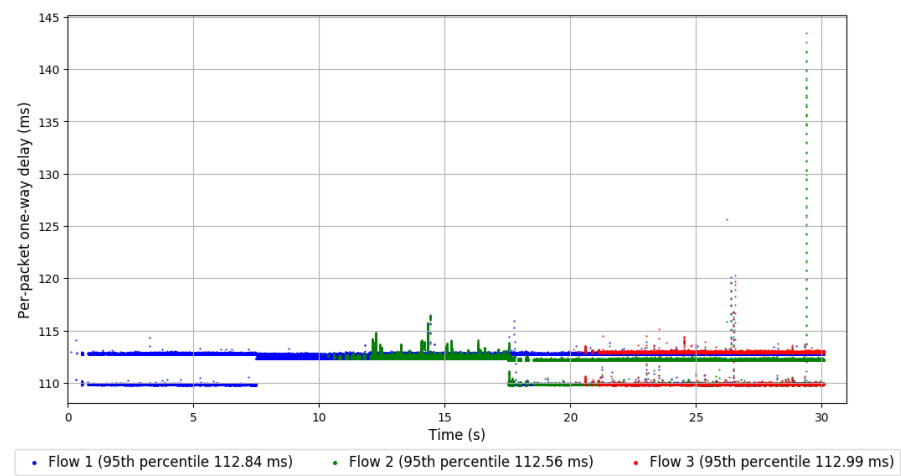
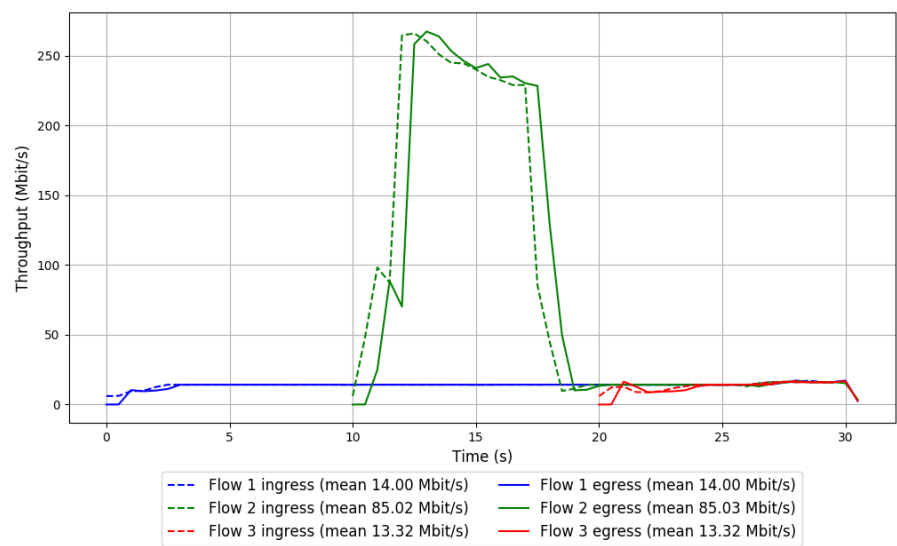
-- Flow 3:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 112.994 ms

Loss rate: 0.00%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-18 14:20:15

End at: 2018-06-18 14:20:45

Local clock offset: 0.034 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.01 Mbit/s

95th percentile per-packet one-way delay: 113.829 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.42 Mbit/s

95th percentile per-packet one-way delay: 113.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 198.30 Mbit/s

95th percentile per-packet one-way delay: 114.440 ms

Loss rate: 0.00%

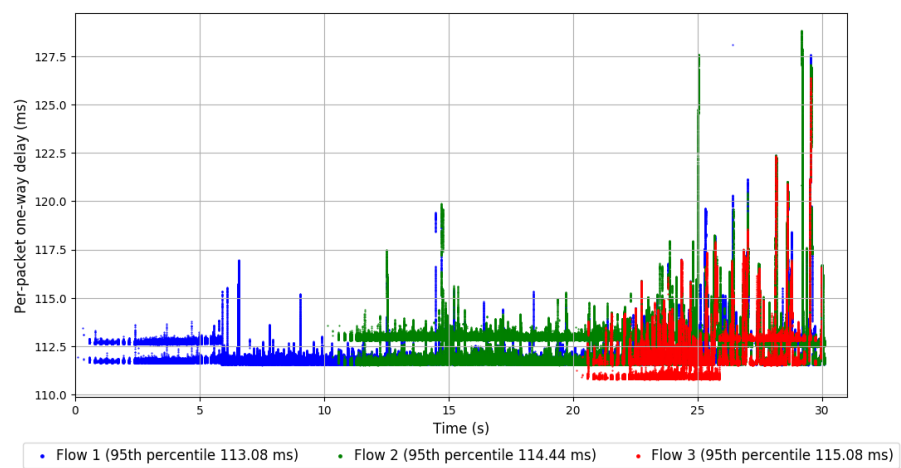
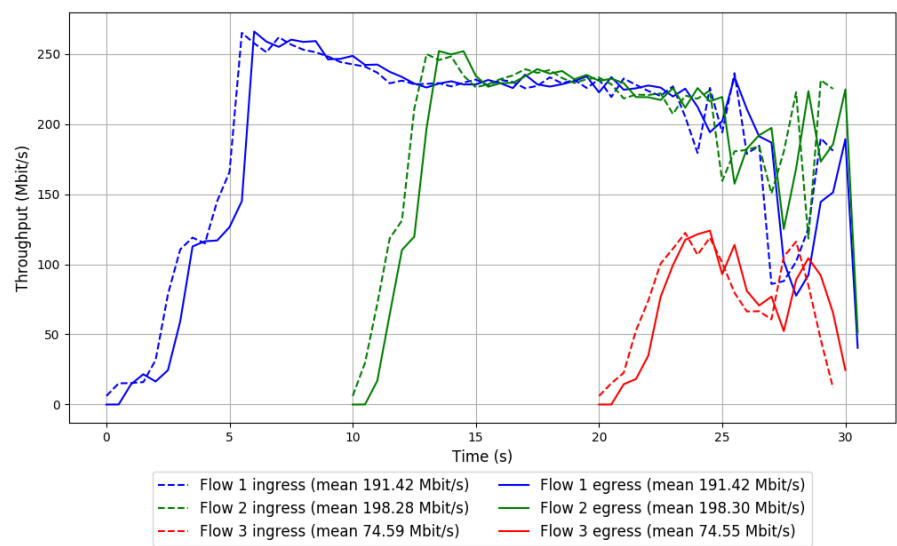
-- Flow 3:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 115.083 ms

Loss rate: 0.00%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-18 14:44:34

End at: 2018-06-18 14:45:04

Local clock offset: -0.044 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.30 Mbit/s

95th percentile per-packet one-way delay: 113.156 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.48 Mbit/s

95th percentile per-packet one-way delay: 112.707 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 118.40 Mbit/s

95th percentile per-packet one-way delay: 112.634 ms

Loss rate: 0.00%

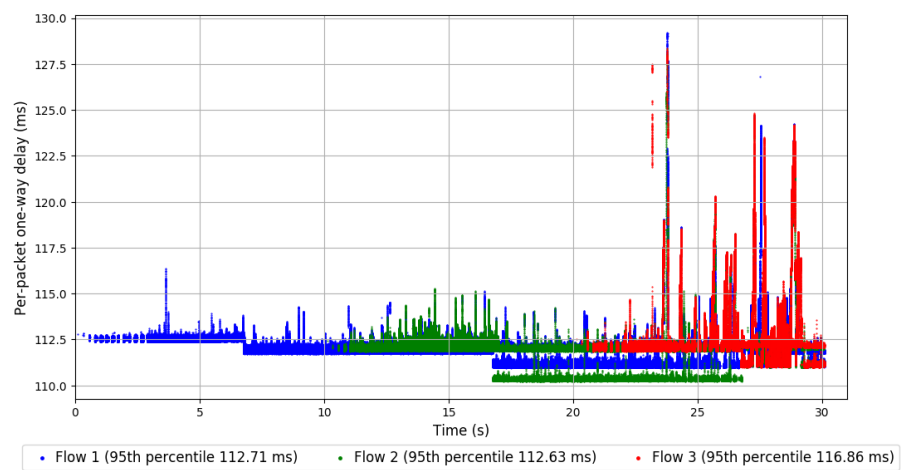
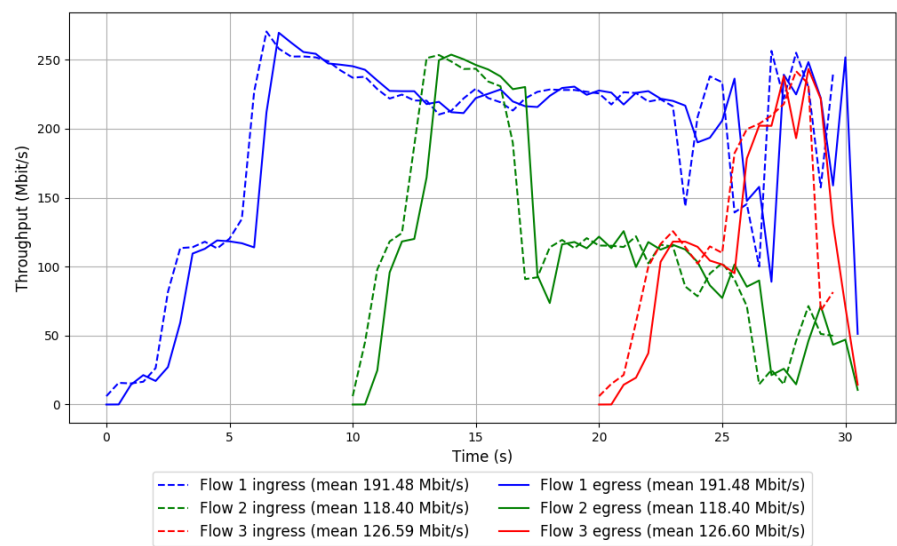
-- Flow 3:

Average throughput: 126.60 Mbit/s

95th percentile per-packet one-way delay: 116.860 ms

Loss rate: 0.01%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-18 15:08:46

End at: 2018-06-18 15:09:16

Local clock offset: -0.025 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.68 Mbit/s

95th percentile per-packet one-way delay: 113.757 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 26.44 Mbit/s

95th percentile per-packet one-way delay: 113.927 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 207.05 Mbit/s

95th percentile per-packet one-way delay: 113.537 ms

Loss rate: 0.00%

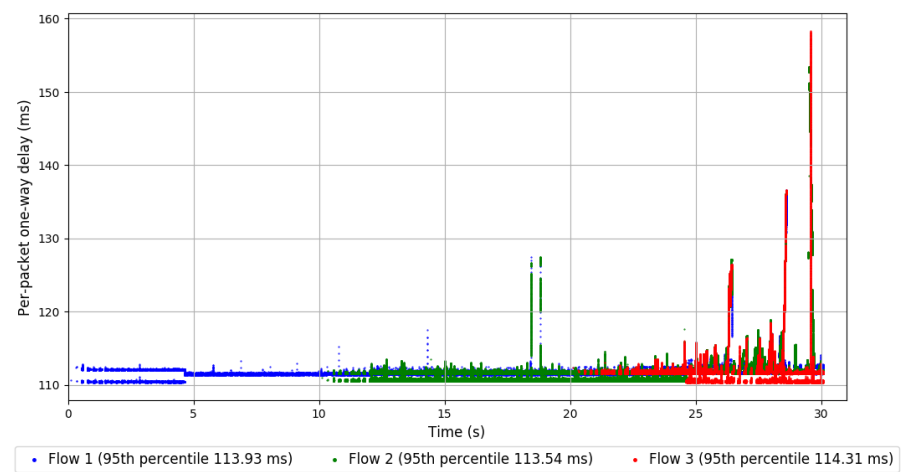
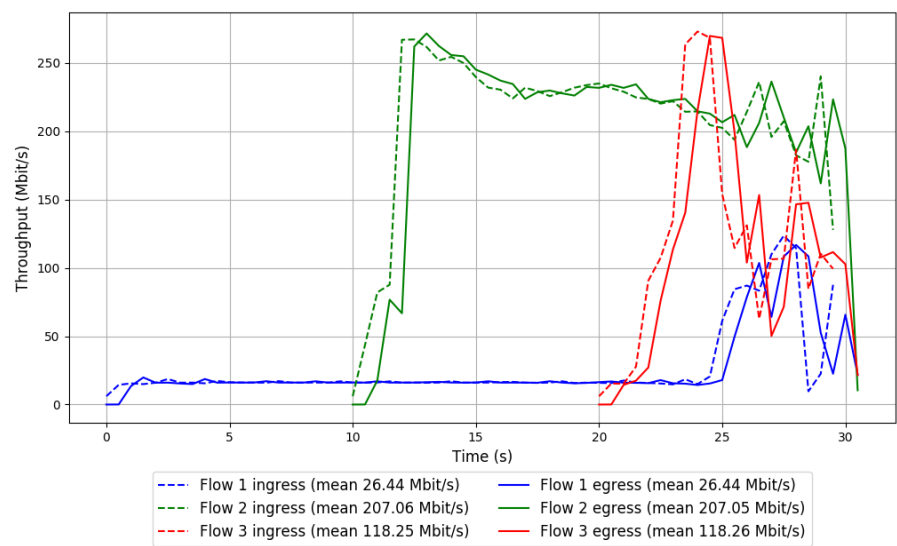
-- Flow 3:

Average throughput: 118.26 Mbit/s

95th percentile per-packet one-way delay: 114.311 ms

Loss rate: 0.00%

Run 7: Report of TaoVA-100x — Data Link

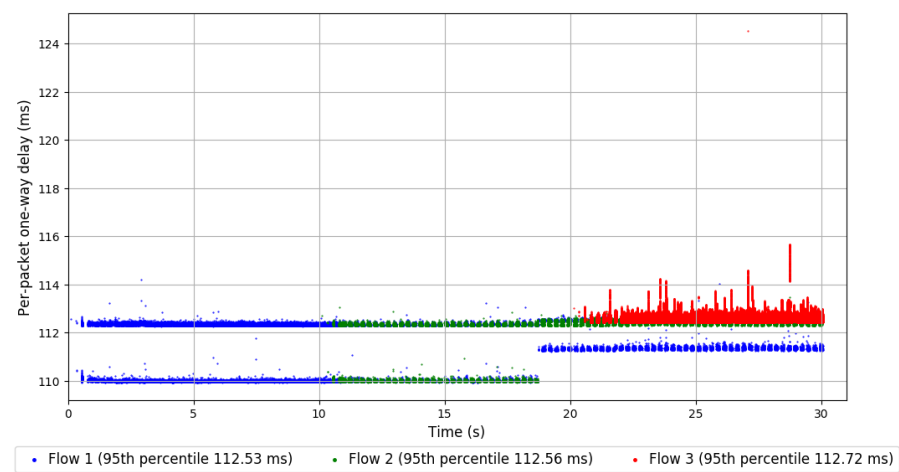
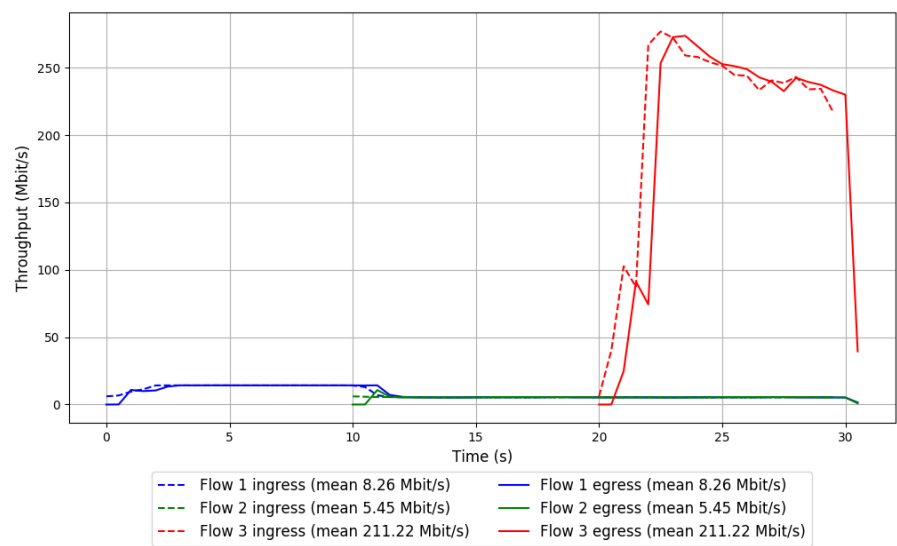


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-18 15:32:42
End at: 2018-06-18 15:33:12
Local clock offset: -0.151 ms
Remote clock offset: -0.359 ms

Below is generated by plot.py at 2018-06-18 18:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.00 Mbit/s
95th percentile per-packet one-way delay: 112.708 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 112.534 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.45 Mbit/s
95th percentile per-packet one-way delay: 112.565 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 211.22 Mbit/s
95th percentile per-packet one-way delay: 112.723 ms
Loss rate: 0.02%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-18 15:56:11

End at: 2018-06-18 15:56:41

Local clock offset: -0.177 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.85 Mbit/s

95th percentile per-packet one-way delay: 111.365 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.51 Mbit/s

95th percentile per-packet one-way delay: 111.254 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 113.928 ms

Loss rate: 0.00%

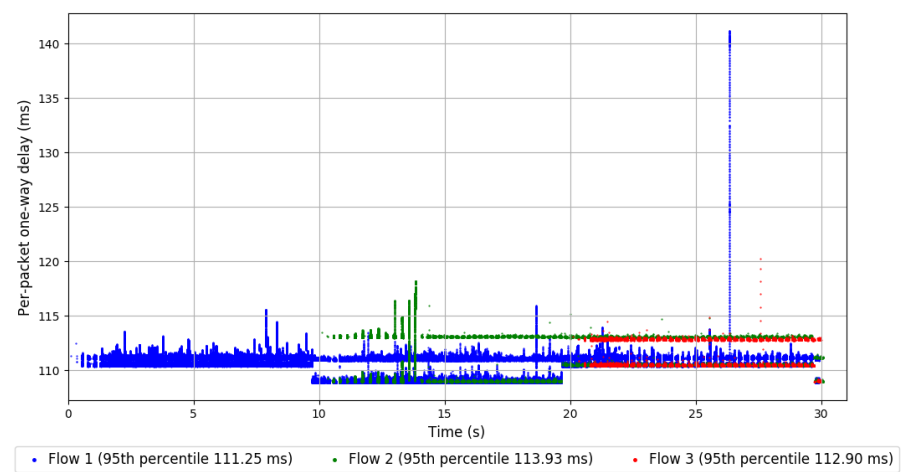
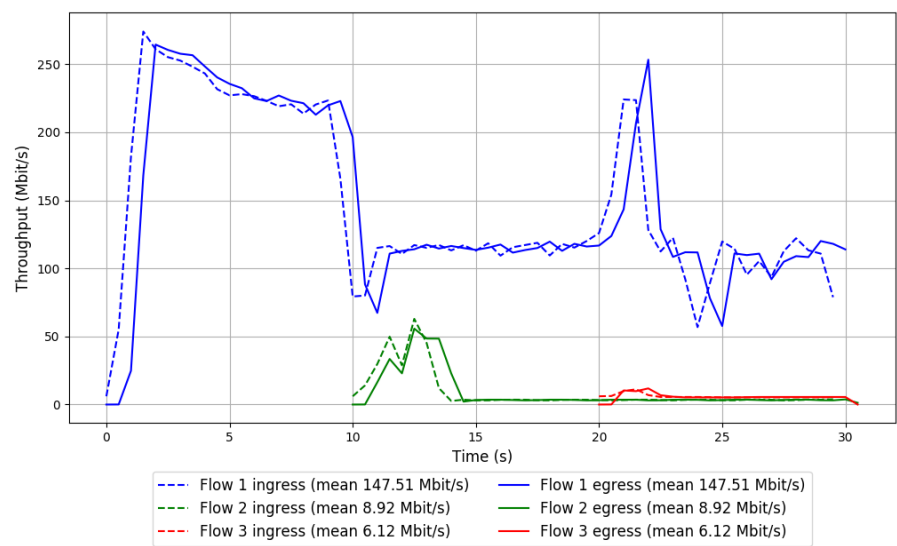
-- Flow 3:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 112.902 ms

Loss rate: 0.00%

Run 9: Report of TaoVA-100x — Data Link

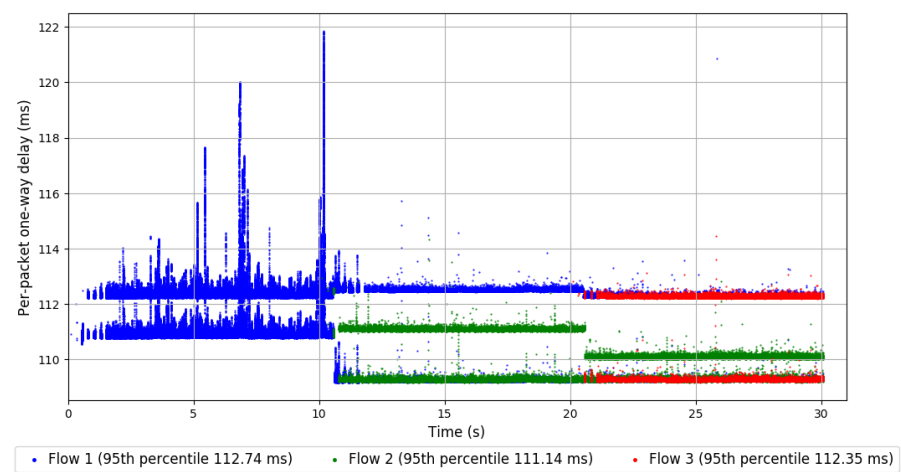
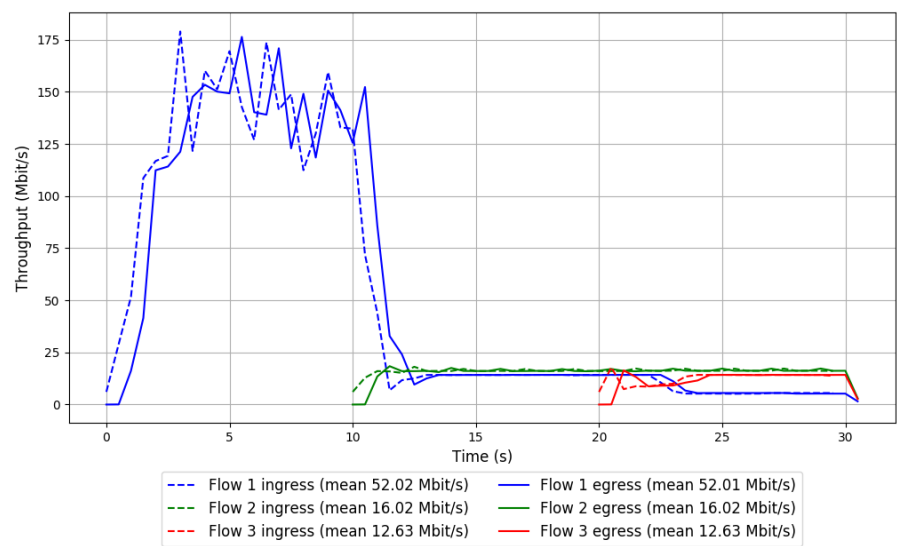


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-18 16:20:01
End at: 2018-06-18 16:20:31
Local clock offset: -0.059 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2018-06-18 18:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.85 Mbit/s
95th percentile per-packet one-way delay: 112.635 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.01 Mbit/s
95th percentile per-packet one-way delay: 112.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 111.140 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 112.353 ms
Loss rate: 0.00%

Run 10: Report of TaoVA-100x — Data Link

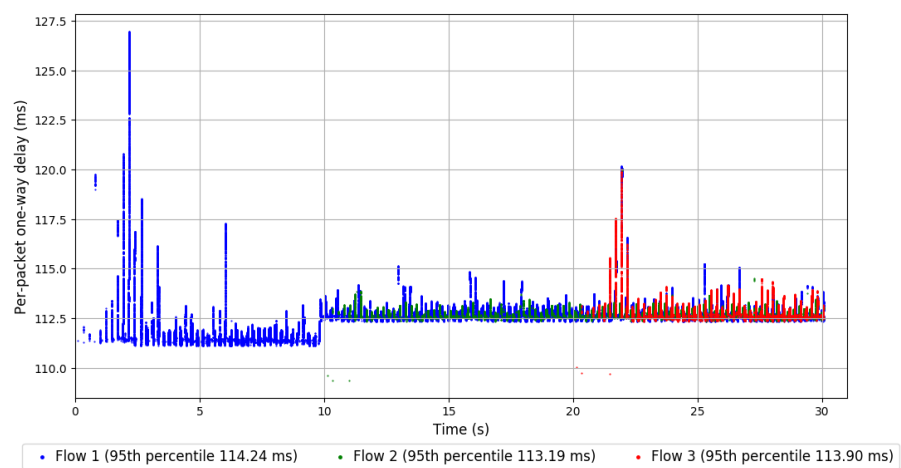
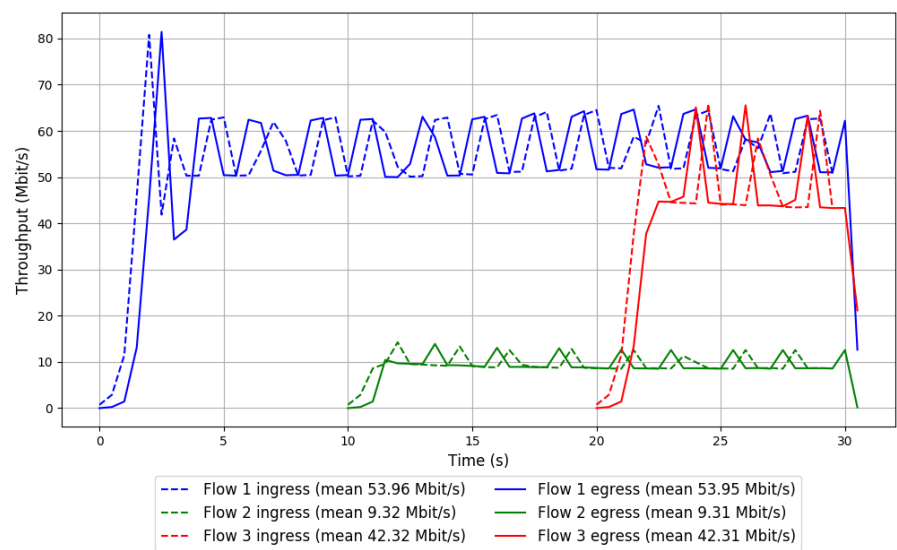


Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 13:02:11
End at: 2018-06-18 13:02:41
Local clock offset: -0.043 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-18 18:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.21 Mbit/s
95th percentile per-packet one-way delay: 114.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 114.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 113.194 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.31 Mbit/s
95th percentile per-packet one-way delay: 113.903 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-18 13:26:16

End at: 2018-06-18 13:26:46

Local clock offset: -0.076 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.34 Mbit/s

95th percentile per-packet one-way delay: 115.904 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.41 Mbit/s

95th percentile per-packet one-way delay: 115.276 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 115.547 ms

Loss rate: 0.00%

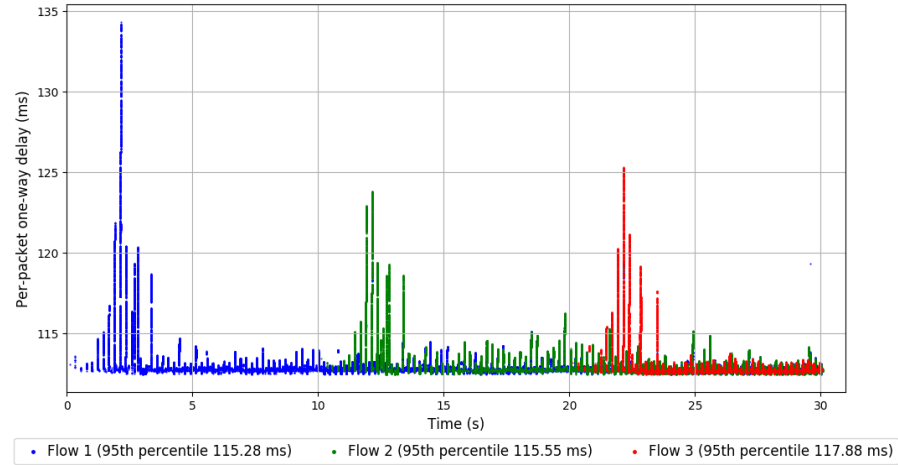
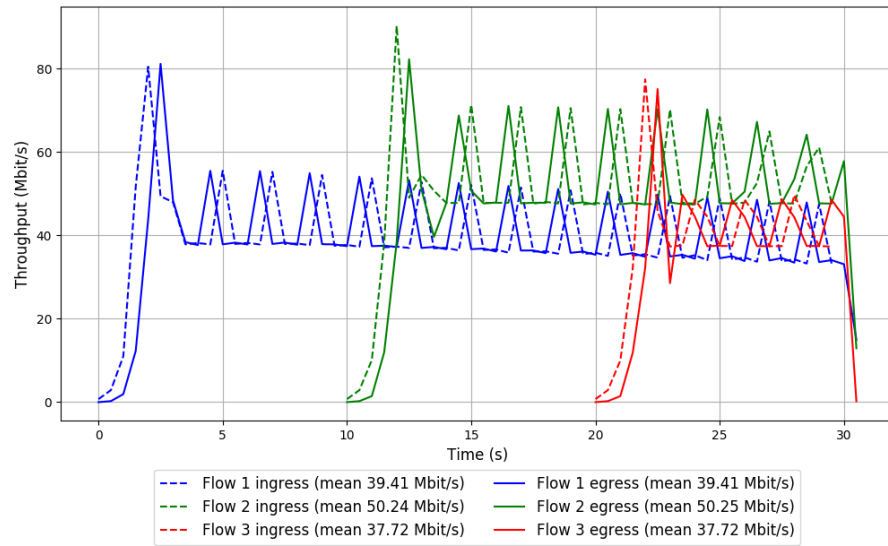
-- Flow 3:

Average throughput: 37.72 Mbit/s

95th percentile per-packet one-way delay: 117.875 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

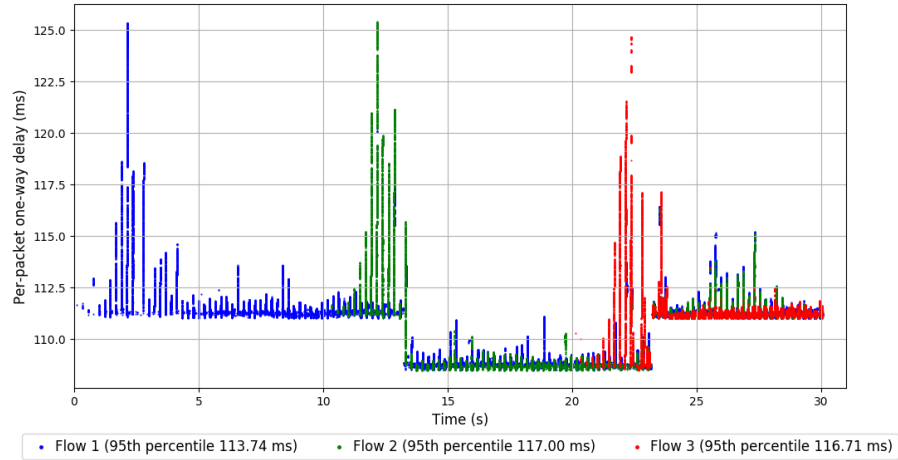
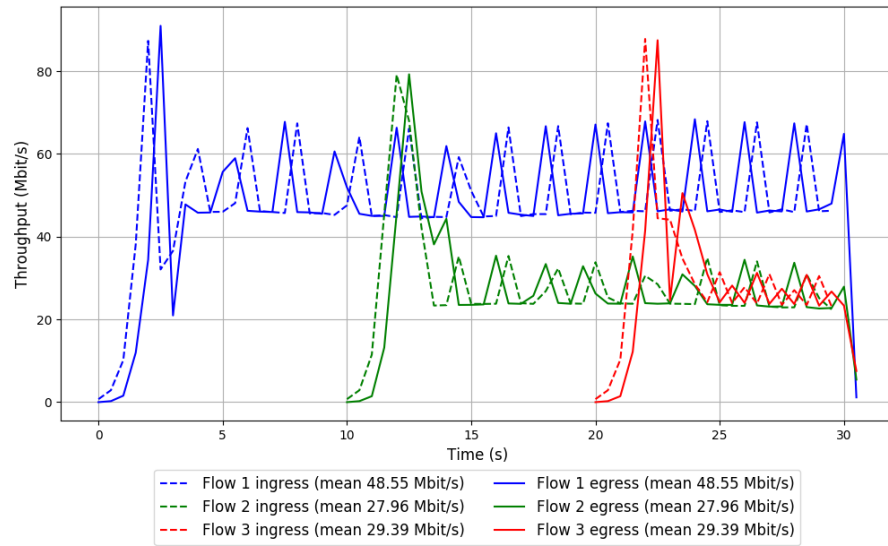


Run 3: Statistics of TCP Vegas

Start at: 2018-06-18 13:49:58
End at: 2018-06-18 13:50:28
Local clock offset: 1.182 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-18 18:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.89 Mbit/s
95th percentile per-packet one-way delay: 115.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 113.742 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 116.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.39 Mbit/s
95th percentile per-packet one-way delay: 116.713 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-18 14:14:02

End at: 2018-06-18 14:14:32

Local clock offset: 0.134 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.72 Mbit/s

95th percentile per-packet one-way delay: 119.081 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 118.407 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.66 Mbit/s

95th percentile per-packet one-way delay: 120.317 ms

Loss rate: 0.00%

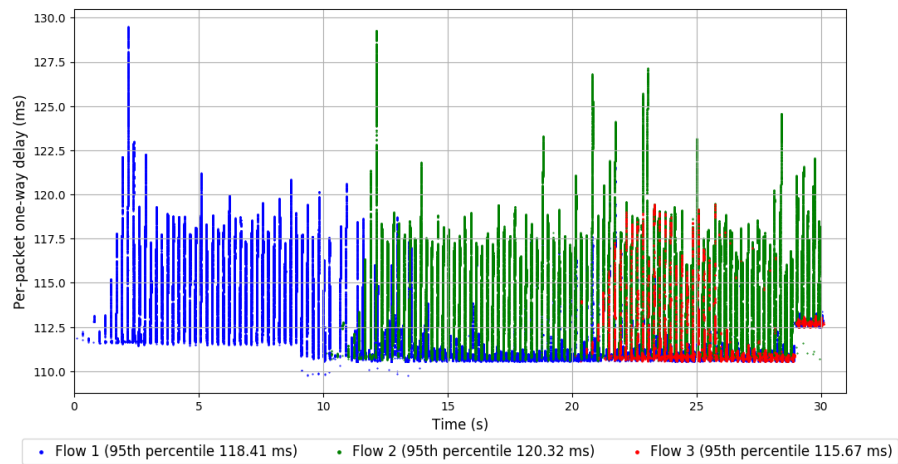
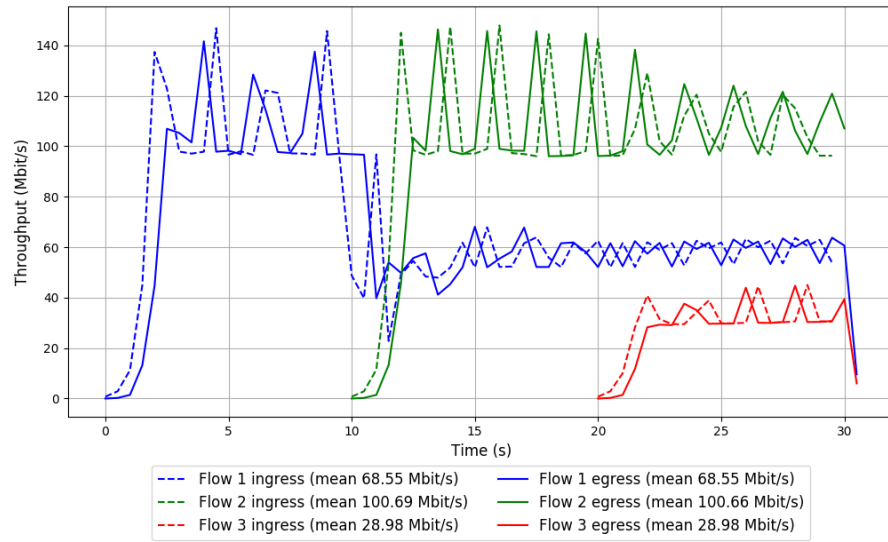
-- Flow 3:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 115.671 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-18 14:38:30

End at: 2018-06-18 14:39:00

Local clock offset: 0.089 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 113.996 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 113.372 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 113.548 ms

Loss rate: 0.00%

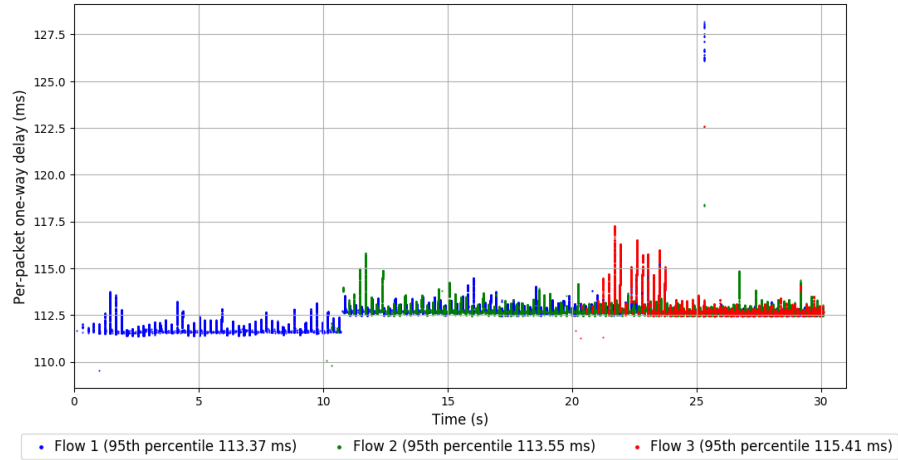
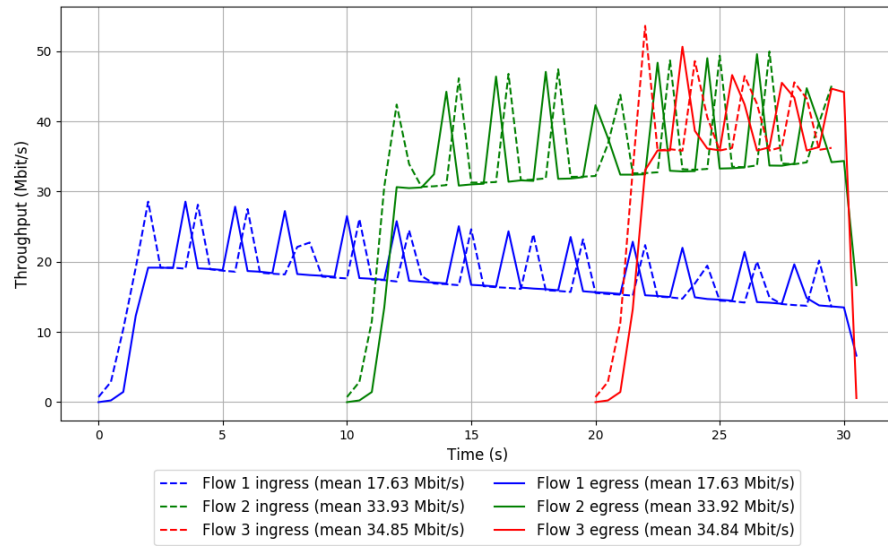
-- Flow 3:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 115.405 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-18 15:02:44

End at: 2018-06-18 15:03:14

Local clock offset: -1.394 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.06 Mbit/s

95th percentile per-packet one-way delay: 115.419 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 28.99 Mbit/s

95th percentile per-packet one-way delay: 117.242 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.96 Mbit/s

95th percentile per-packet one-way delay: 114.496 ms

Loss rate: 0.00%

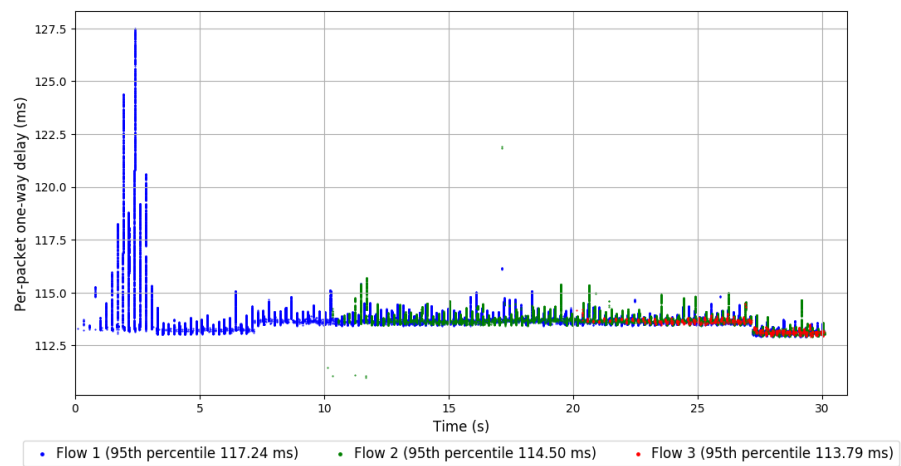
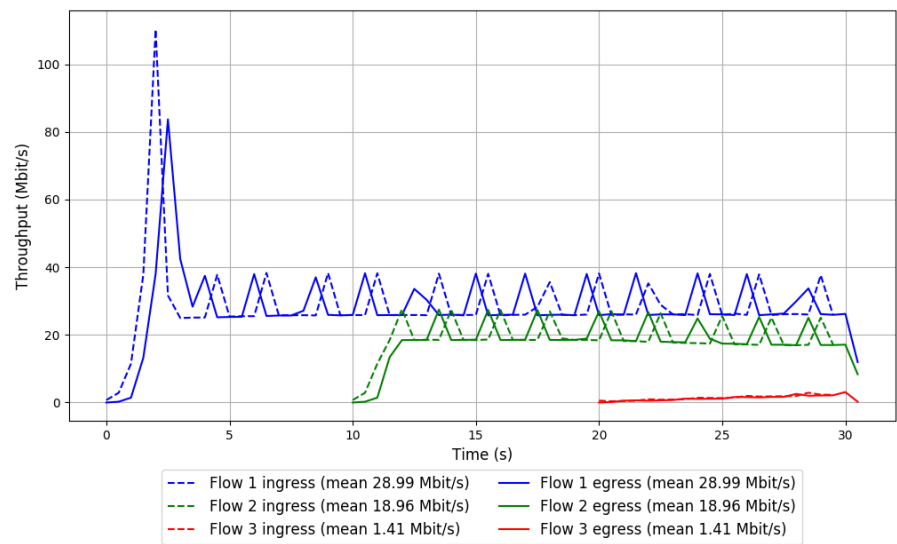
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 113.790 ms

Loss rate: 0.26%

Run 6: Report of TCP Vegas — Data Link

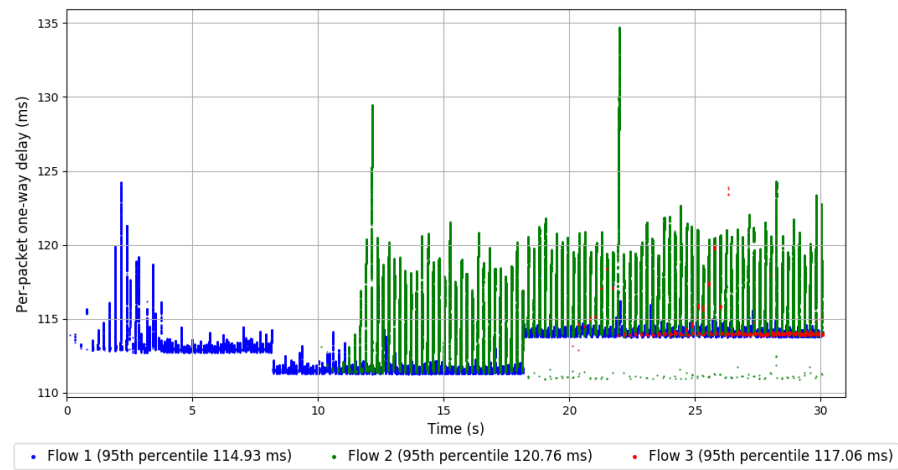
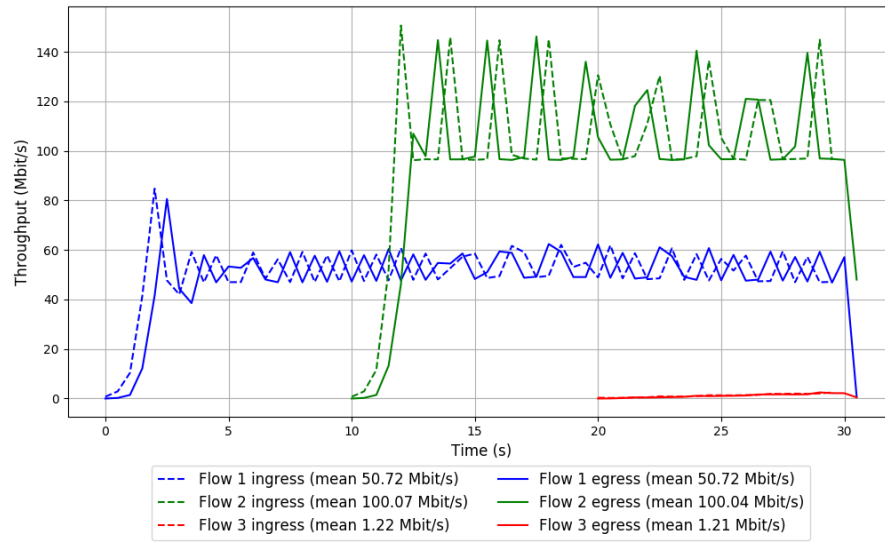


Run 7: Statistics of TCP Vegas

Start at: 2018-06-18 15:26:43
End at: 2018-06-18 15:27:13
Local clock offset: -1.513 ms
Remote clock offset: -0.356 ms

```
# Below is generated by plot.py at 2018-06-18 18:23:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.66 Mbit/s
95th percentile per-packet one-way delay: 120.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.72 Mbit/s
95th percentile per-packet one-way delay: 114.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 100.04 Mbit/s
95th percentile per-packet one-way delay: 120.760 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 117.059 ms
Loss rate: 0.79%
```

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-18 15:50:19

End at: 2018-06-18 15:50:49

Local clock offset: -0.005 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.59 Mbit/s

95th percentile per-packet one-way delay: 113.882 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 113.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.38 Mbit/s

95th percentile per-packet one-way delay: 113.327 ms

Loss rate: 0.00%

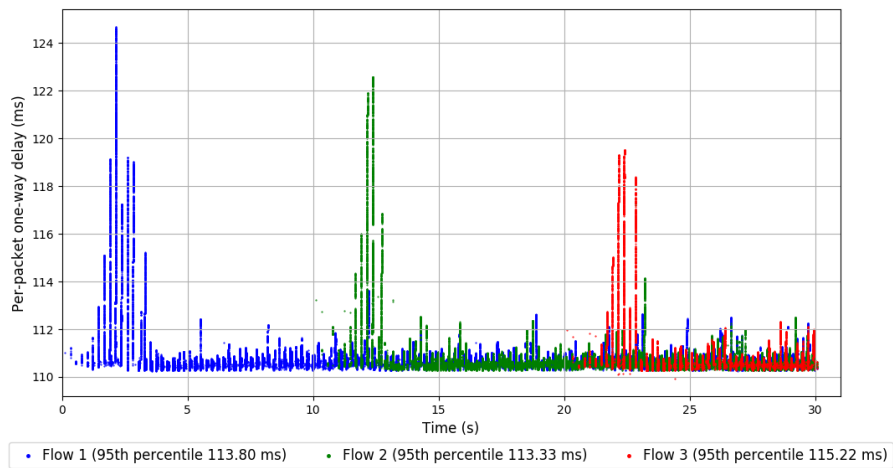
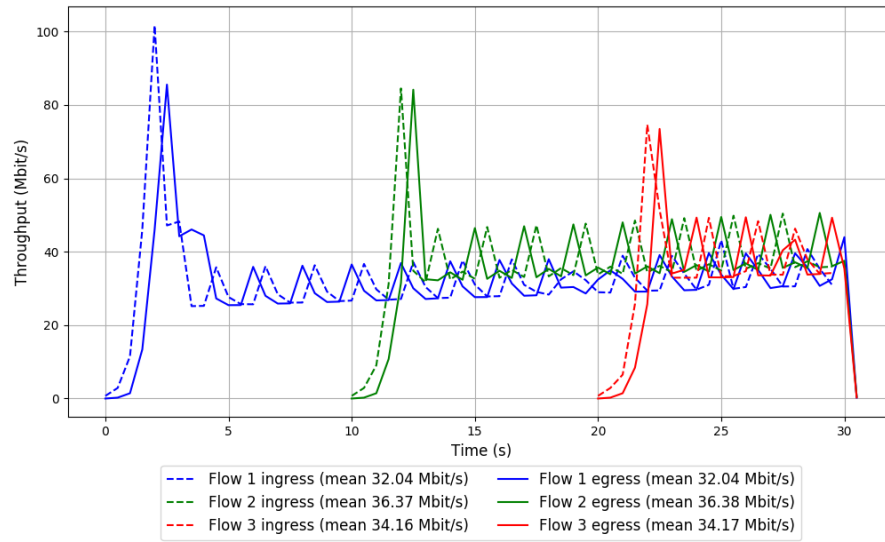
-- Flow 3:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 115.222 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-18 16:13:59

End at: 2018-06-18 16:14:29

Local clock offset: -1.282 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-06-18 18:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.93 Mbit/s

95th percentile per-packet one-way delay: 123.596 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 120.954 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 120.401 ms

Loss rate: 0.28%

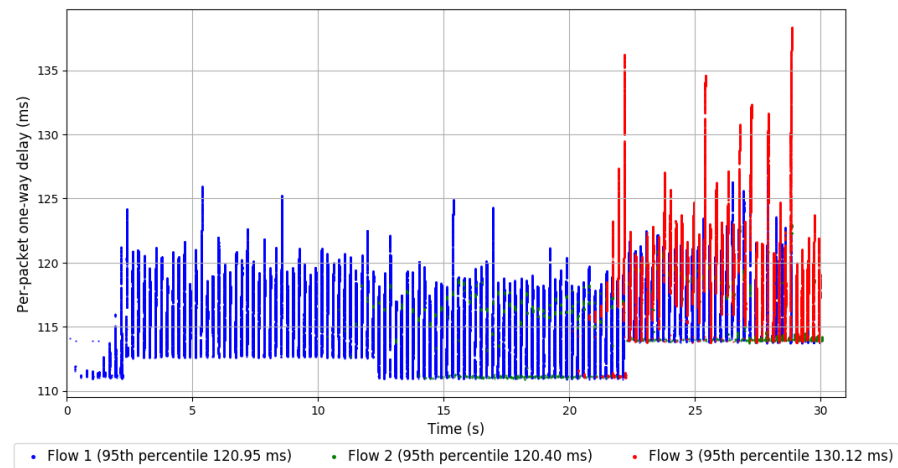
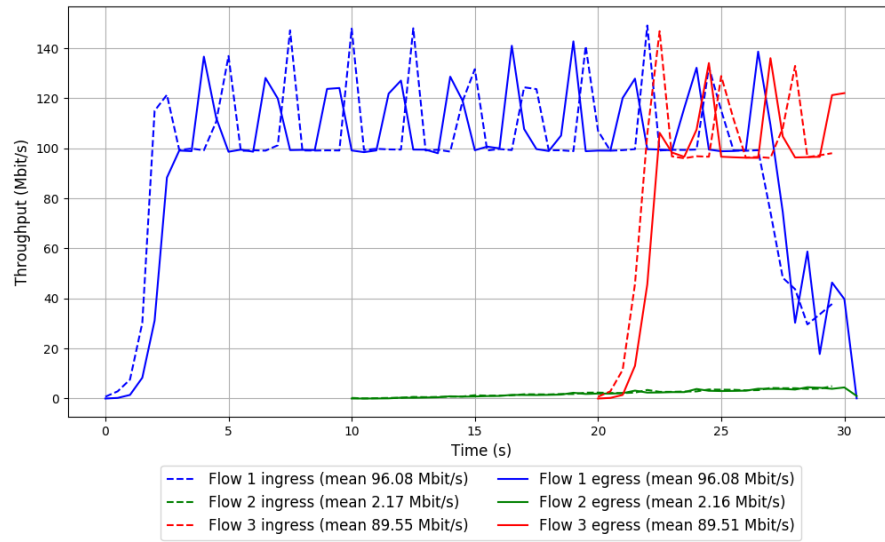
-- Flow 3:

Average throughput: 89.51 Mbit/s

95th percentile per-packet one-way delay: 130.121 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

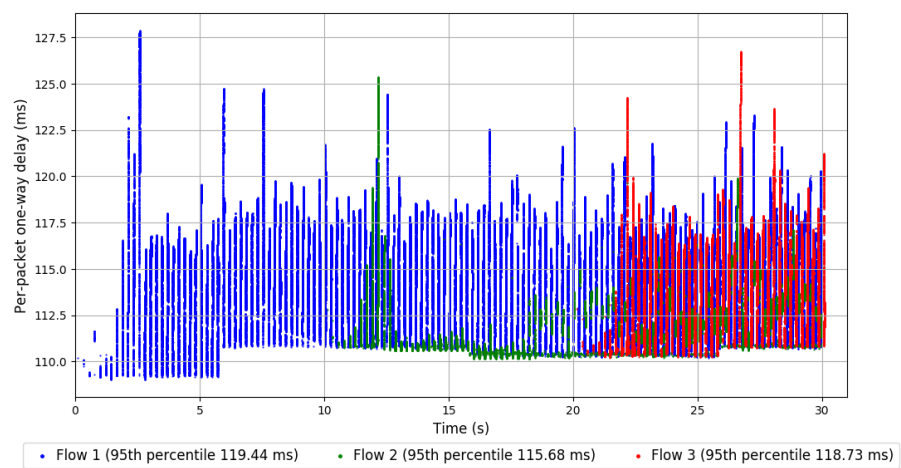
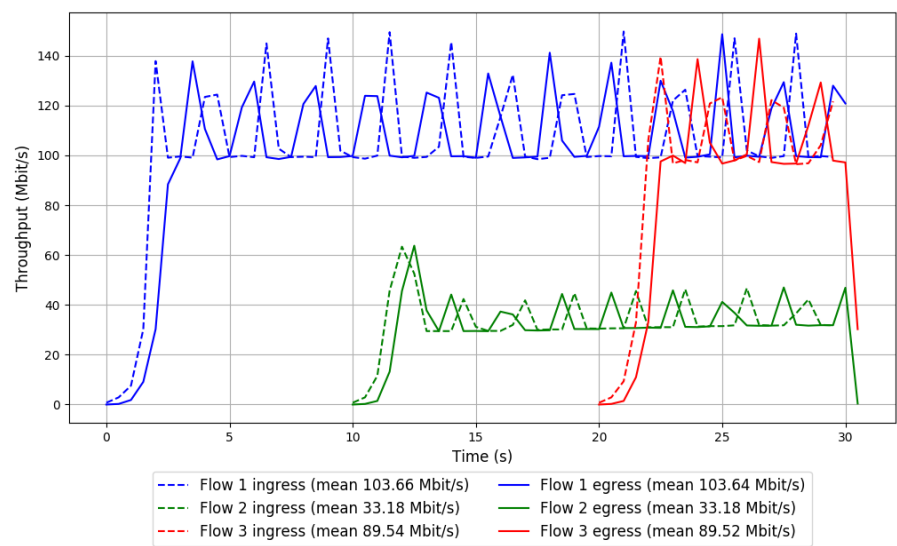


Run 10: Statistics of TCP Vegas

Start at: 2018-06-18 16:37:45
End at: 2018-06-18 16:38:15
Local clock offset: 0.137 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2018-06-18 18:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.04 Mbit/s
95th percentile per-packet one-way delay: 119.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.64 Mbit/s
95th percentile per-packet one-way delay: 119.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 115.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.52 Mbit/s
95th percentile per-packet one-way delay: 118.735 ms
Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-18 12:45:37

End at: 2018-06-18 12:46:07

Local clock offset: -0.259 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-06-18 18:25:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.42 Mbit/s

95th percentile per-packet one-way delay: 195.668 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 153.84 Mbit/s

95th percentile per-packet one-way delay: 194.748 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 138.32 Mbit/s

95th percentile per-packet one-way delay: 183.092 ms

Loss rate: 0.11%

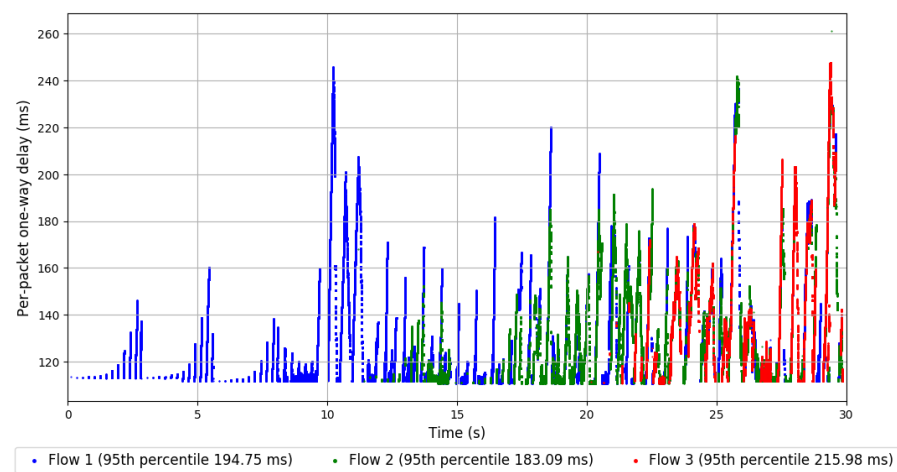
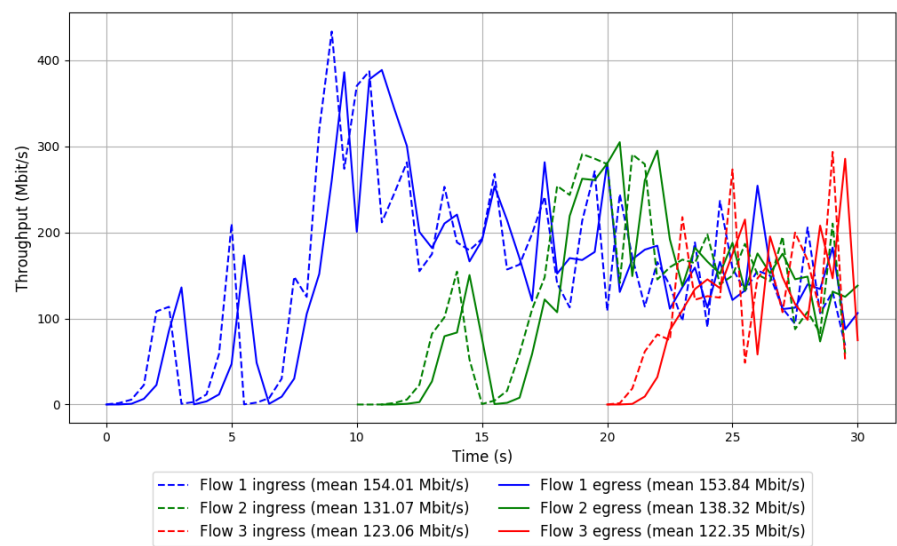
-- Flow 3:

Average throughput: 122.35 Mbit/s

95th percentile per-packet one-way delay: 215.984 ms

Loss rate: 0.58%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-18 13:09:36

End at: 2018-06-18 13:10:06

Local clock offset: -0.015 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-18 18:25:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.56 Mbit/s

95th percentile per-packet one-way delay: 310.741 ms

Loss rate: 3.98%

-- Flow 1:

Average throughput: 157.97 Mbit/s

95th percentile per-packet one-way delay: 311.980 ms

Loss rate: 3.41%

-- Flow 2:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 318.007 ms

Loss rate: 4.86%

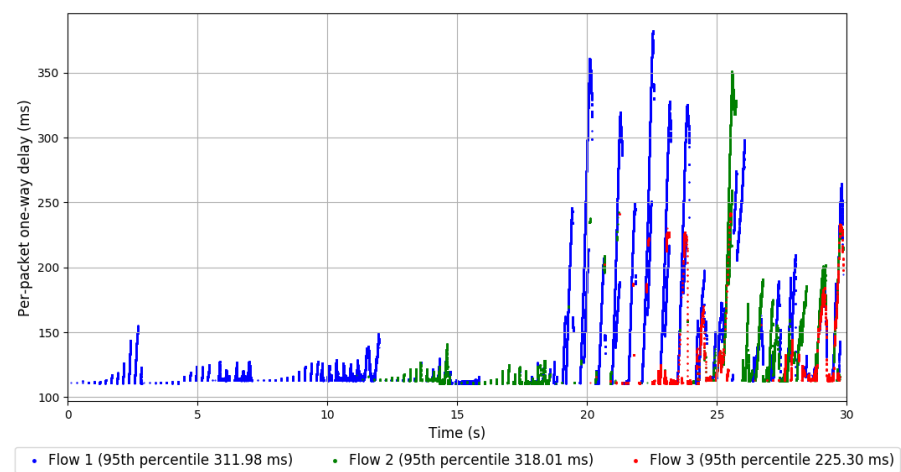
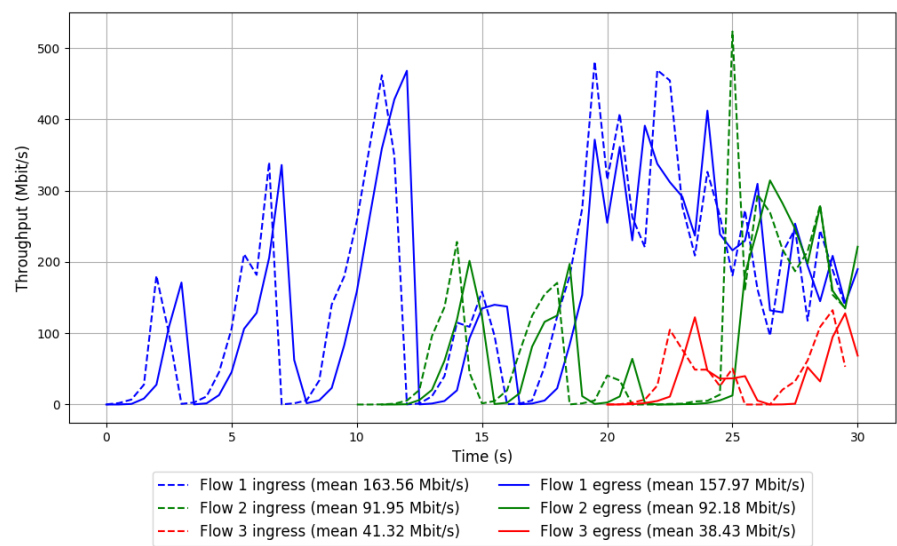
-- Flow 3:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 225.297 ms

Loss rate: 6.94%

Run 2: Report of Verus — Data Link

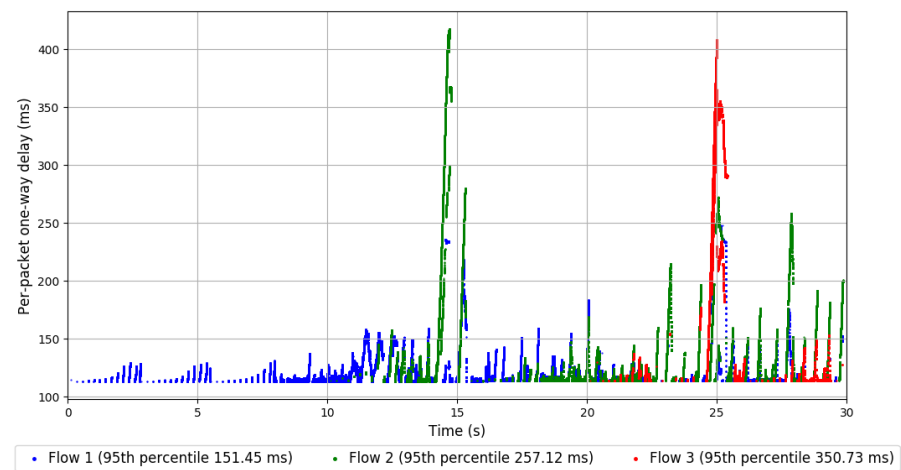
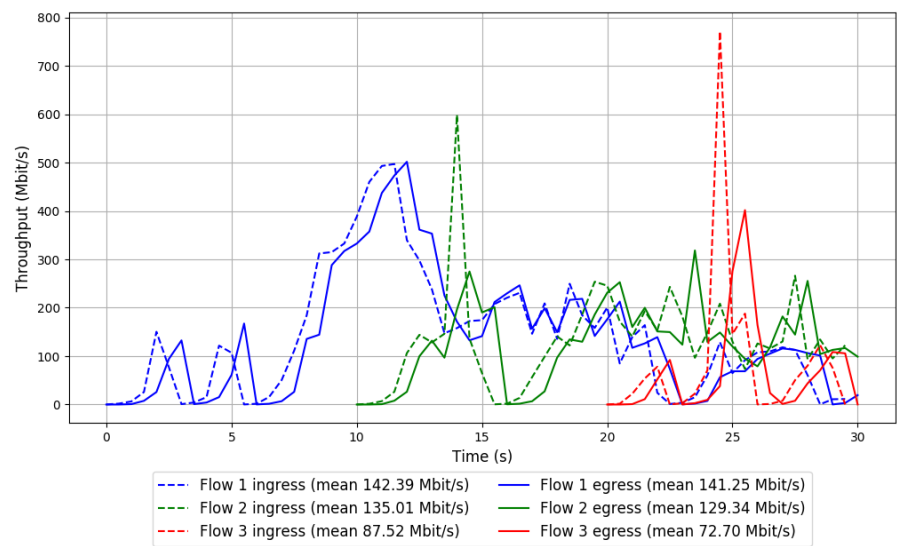


Run 3: Statistics of Verus

Start at: 2018-06-18 13:33:35
End at: 2018-06-18 13:34:05
Local clock offset: -1.343 ms
Remote clock offset: -0.348 ms

Below is generated by plot.py at 2018-06-18 18:26:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 250.66 Mbit/s
95th percentile per-packet one-way delay: 245.298 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 141.25 Mbit/s
95th percentile per-packet one-way delay: 151.447 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 129.34 Mbit/s
95th percentile per-packet one-way delay: 257.123 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 72.70 Mbit/s
95th percentile per-packet one-way delay: 350.725 ms
Loss rate: 16.81%

Run 3: Report of Verus — Data Link

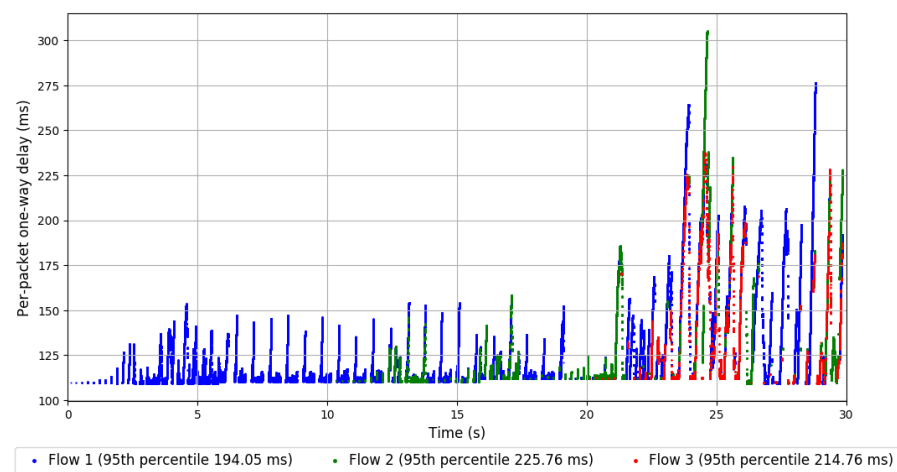
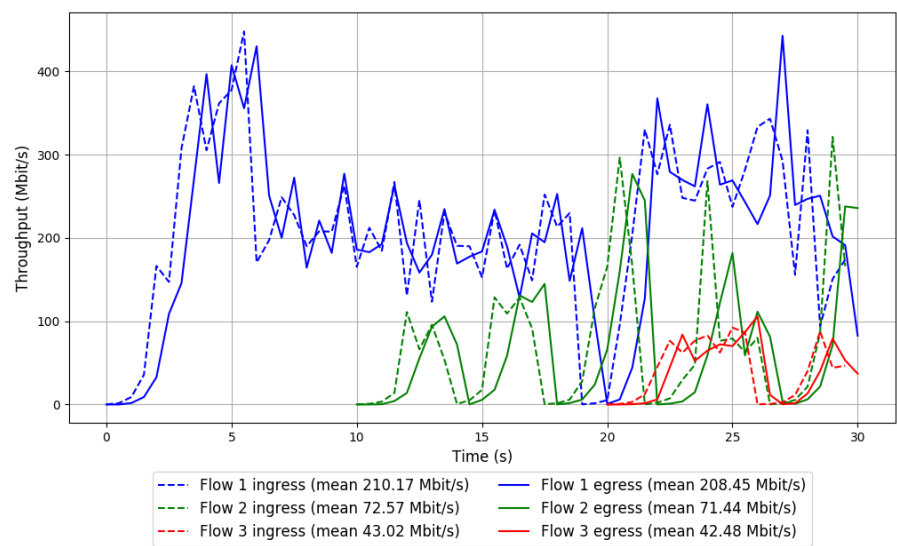


Run 4: Statistics of Verus

Start at: 2018-06-18 13:57:25
End at: 2018-06-18 13:57:55
Local clock offset: -0.111 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-06-18 18:26:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.71 Mbit/s
95th percentile per-packet one-way delay: 200.263 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 208.45 Mbit/s
95th percentile per-packet one-way delay: 194.052 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 71.44 Mbit/s
95th percentile per-packet one-way delay: 225.756 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 42.48 Mbit/s
95th percentile per-packet one-way delay: 214.762 ms
Loss rate: 1.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-18 14:22:03

End at: 2018-06-18 14:22:33

Local clock offset: 0.094 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-18 18:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.73 Mbit/s

95th percentile per-packet one-way delay: 224.777 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 180.820 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 217.63 Mbit/s

95th percentile per-packet one-way delay: 226.257 ms

Loss rate: 1.31%

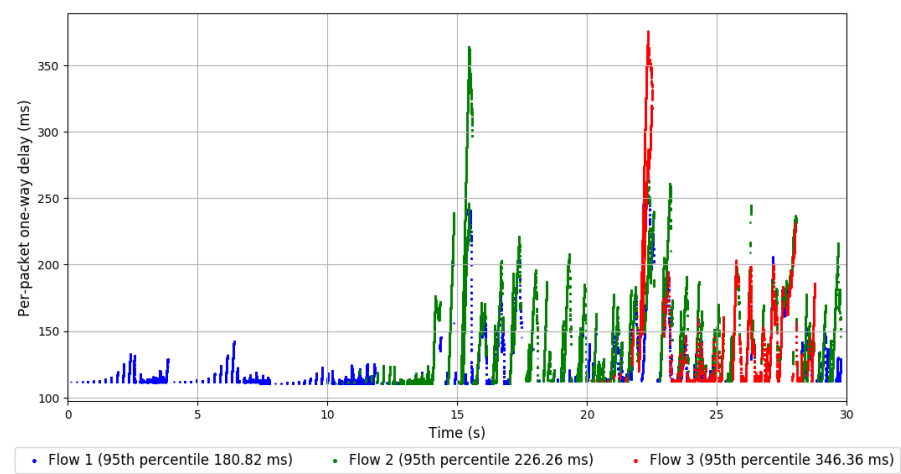
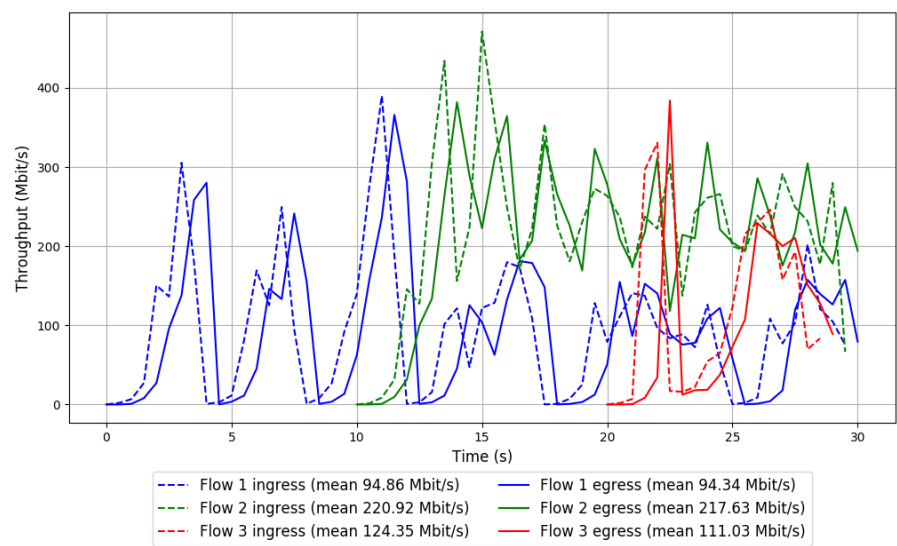
-- Flow 3:

Average throughput: 111.03 Mbit/s

95th percentile per-packet one-way delay: 346.363 ms

Loss rate: 9.96%

Run 5: Report of Verus — Data Link

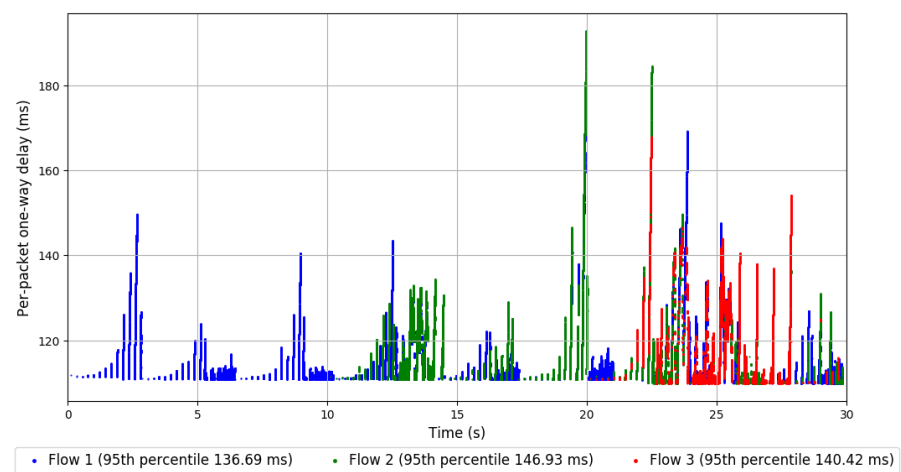
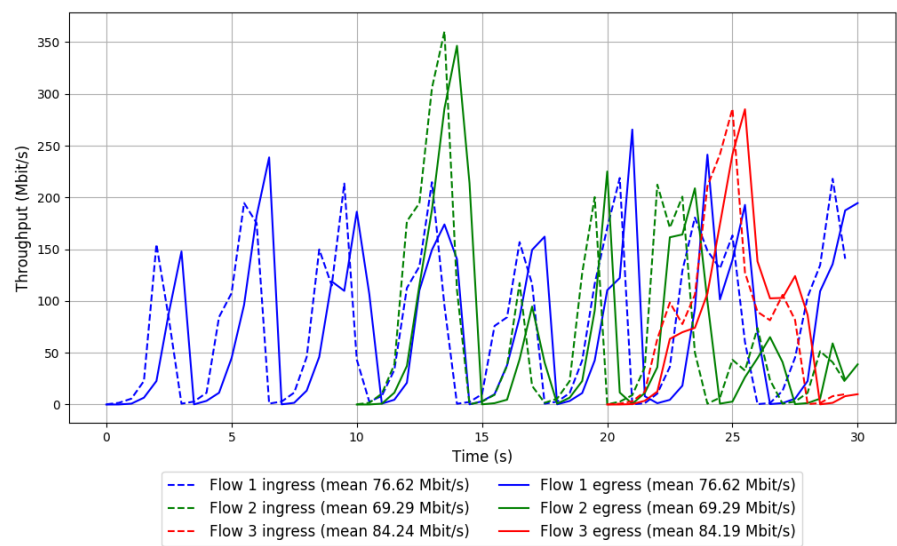


Run 6: Statistics of Verus

Start at: 2018-06-18 14:46:19
End at: 2018-06-18 14:46:49
Local clock offset: 0.266 ms
Remote clock offset: -0.368 ms

Below is generated by plot.py at 2018-06-18 18:26:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 149.60 Mbit/s
95th percentile per-packet one-way delay: 140.605 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.62 Mbit/s
95th percentile per-packet one-way delay: 136.690 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 69.29 Mbit/s
95th percentile per-packet one-way delay: 146.933 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.19 Mbit/s
95th percentile per-packet one-way delay: 140.422 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

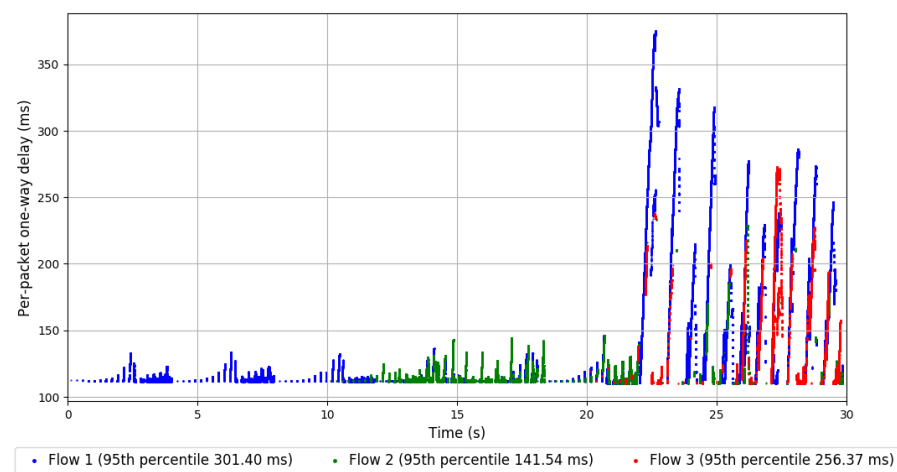
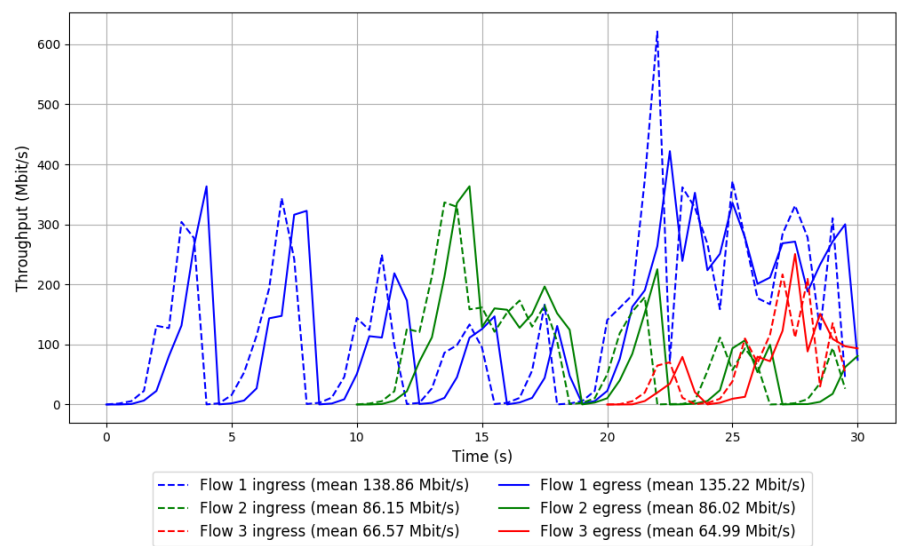


Run 7: Statistics of Verus

Start at: 2018-06-18 15:10:20
End at: 2018-06-18 15:10:50
Local clock offset: -0.012 ms
Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-18 18:27:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.31 Mbit/s
95th percentile per-packet one-way delay: 273.457 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 135.22 Mbit/s
95th percentile per-packet one-way delay: 301.404 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 86.02 Mbit/s
95th percentile per-packet one-way delay: 141.539 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 256.368 ms
Loss rate: 1.98%

Run 7: Report of Verus — Data Link

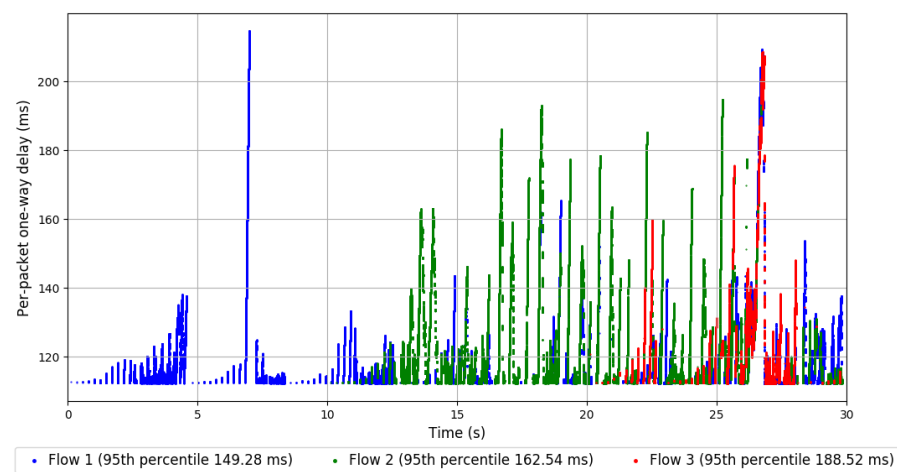
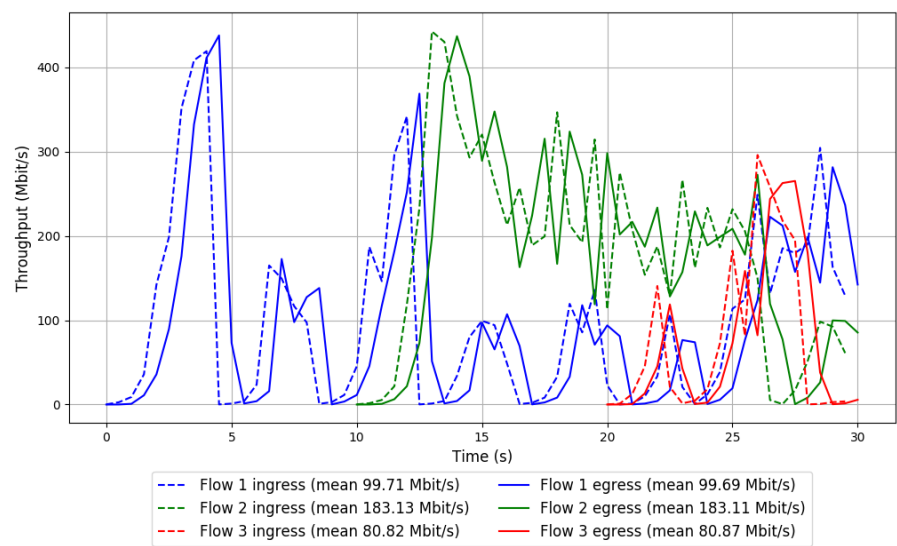


Run 8: Statistics of Verus

Start at: 2018-06-18 15:34:04
End at: 2018-06-18 15:34:34
Local clock offset: 0.034 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2018-06-18 18:28:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.18 Mbit/s
95th percentile per-packet one-way delay: 162.808 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 99.69 Mbit/s
95th percentile per-packet one-way delay: 149.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 183.11 Mbit/s
95th percentile per-packet one-way delay: 162.540 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 80.87 Mbit/s
95th percentile per-packet one-way delay: 188.518 ms
Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-18 15:57:40

End at: 2018-06-18 15:58:10

Local clock offset: 0.125 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2018-06-18 18:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.93 Mbit/s

95th percentile per-packet one-way delay: 195.640 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 179.74 Mbit/s

95th percentile per-packet one-way delay: 191.777 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 59.69 Mbit/s

95th percentile per-packet one-way delay: 206.550 ms

Loss rate: 0.71%

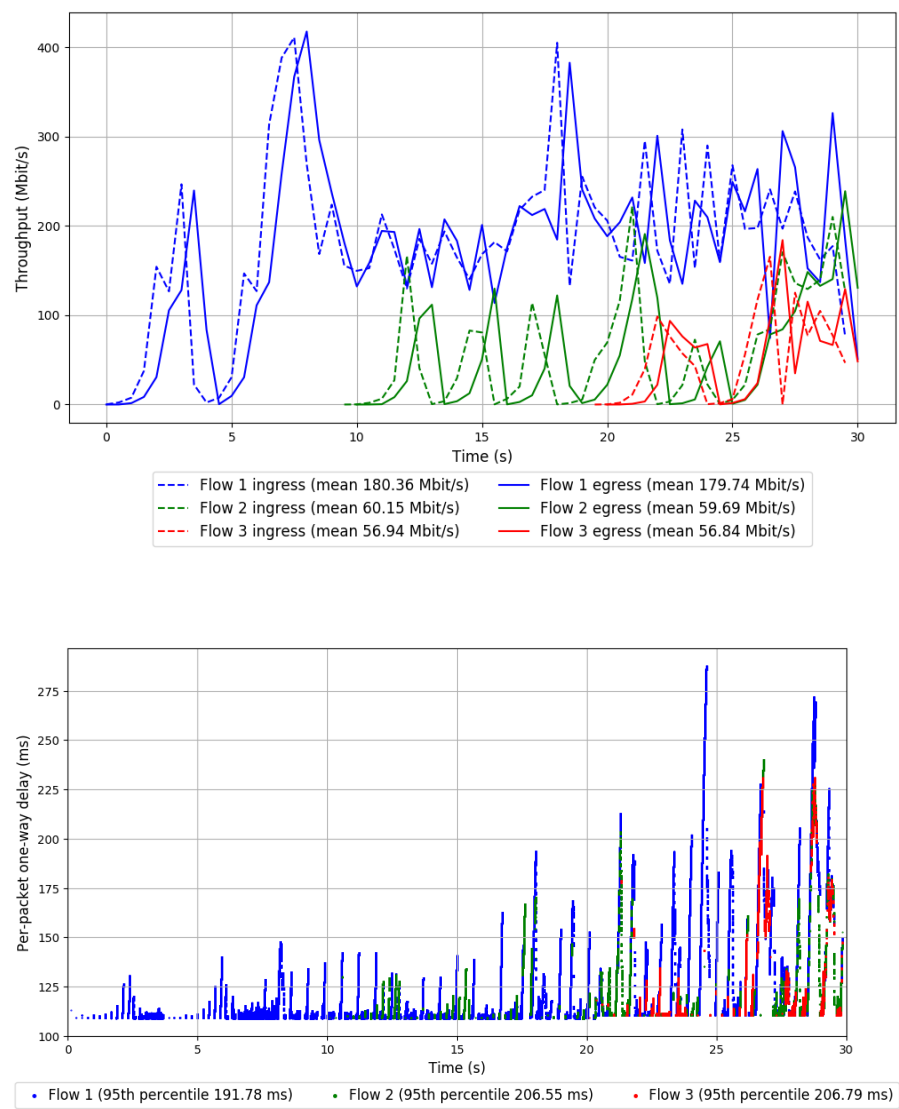
-- Flow 3:

Average throughput: 56.84 Mbit/s

95th percentile per-packet one-way delay: 206.789 ms

Loss rate: 0.10%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-18 16:21:21

End at: 2018-06-18 16:21:51

Local clock offset: 0.047 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at 2018-06-18 18:29:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.16 Mbit/s

95th percentile per-packet one-way delay: 158.999 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 149.46 Mbit/s

95th percentile per-packet one-way delay: 149.529 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 137.94 Mbit/s

95th percentile per-packet one-way delay: 172.177 ms

Loss rate: 0.12%

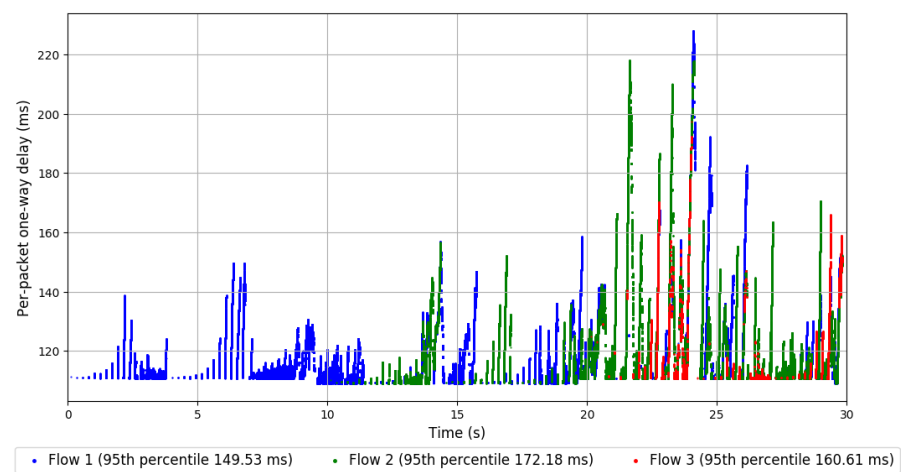
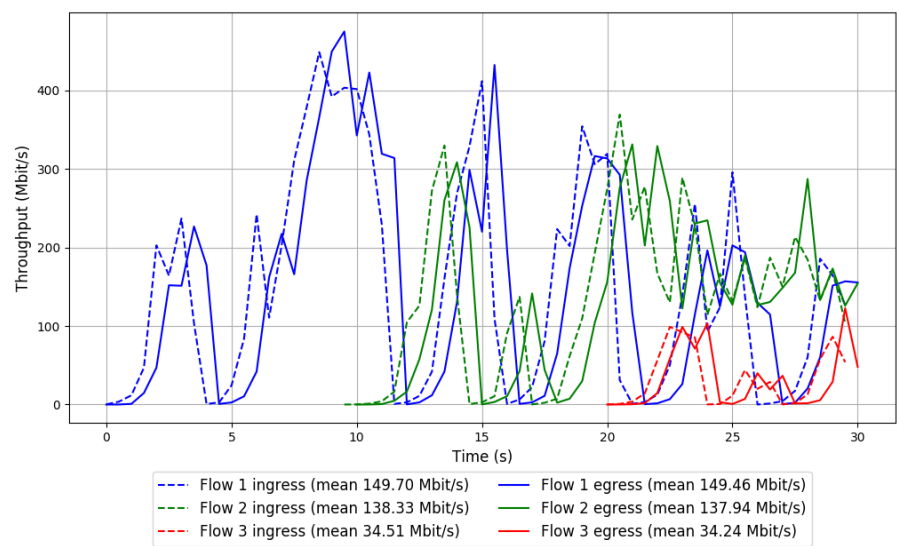
-- Flow 3:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 160.609 ms

Loss rate: 0.87%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 12:41:54

End at: 2018-06-18 12:42:24

Local clock offset: -0.018 ms

Remote clock offset: 0.429 ms

Below is generated by plot.py at 2018-06-18 18:35:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 571.81 Mbit/s

95th percentile per-packet one-way delay: 118.279 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 321.66 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 314.99 Mbit/s

95th percentile per-packet one-way delay: 155.724 ms

Loss rate: 1.03%

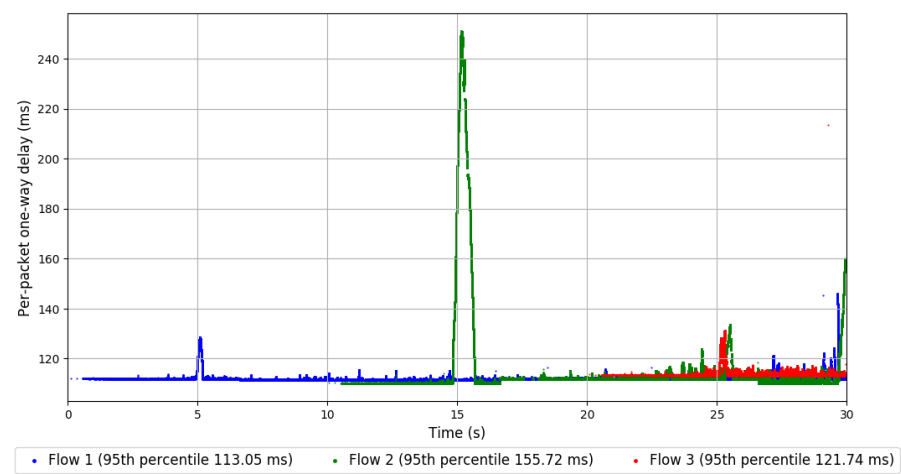
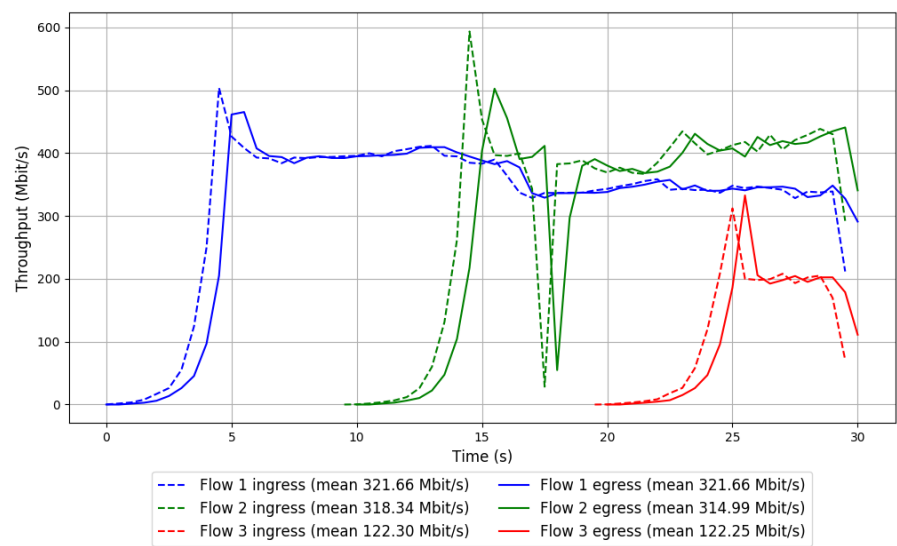
-- Flow 3:

Average throughput: 122.25 Mbit/s

95th percentile per-packet one-way delay: 121.744 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

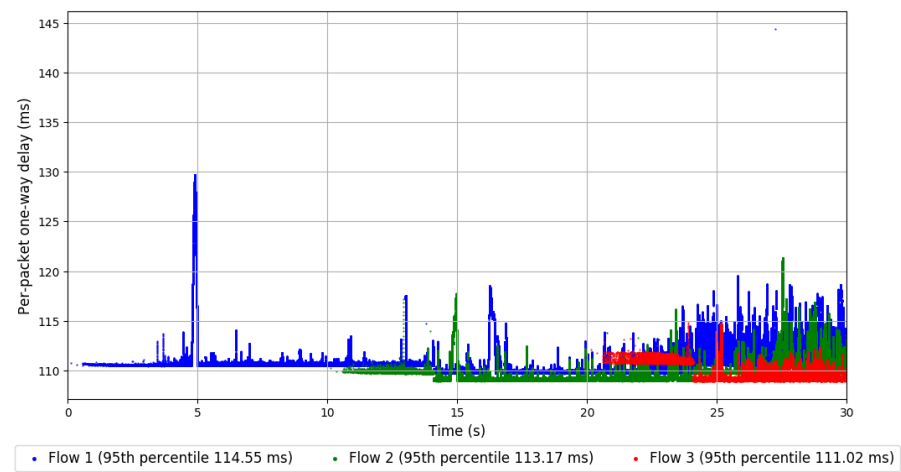
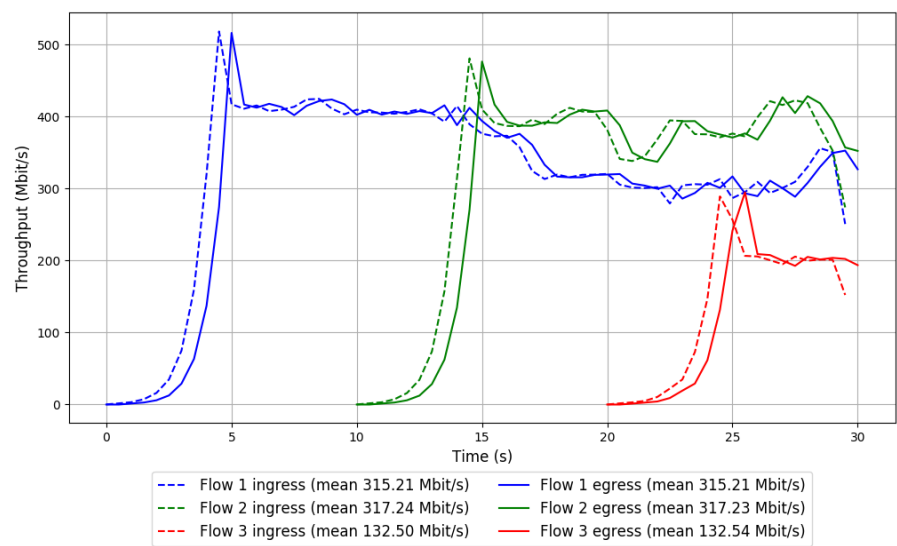


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-18 13:06:17
End at: 2018-06-18 13:06:47
Local clock offset: 1.241 ms
Remote clock offset: -0.367 ms

Below is generated by plot.py at 2018-06-18 18:35:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 569.87 Mbit/s
95th percentile per-packet one-way delay: 113.882 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 315.21 Mbit/s
95th percentile per-packet one-way delay: 114.546 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 317.23 Mbit/s
95th percentile per-packet one-way delay: 113.172 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 132.54 Mbit/s
95th percentile per-packet one-way delay: 111.020 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-18 13:30:15

End at: 2018-06-18 13:30:45

Local clock offset: -1.242 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-18 18:35:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 513.23 Mbit/s

95th percentile per-packet one-way delay: 119.923 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 344.48 Mbit/s

95th percentile per-packet one-way delay: 122.399 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 190.05 Mbit/s

95th percentile per-packet one-way delay: 113.016 ms

Loss rate: 0.00%

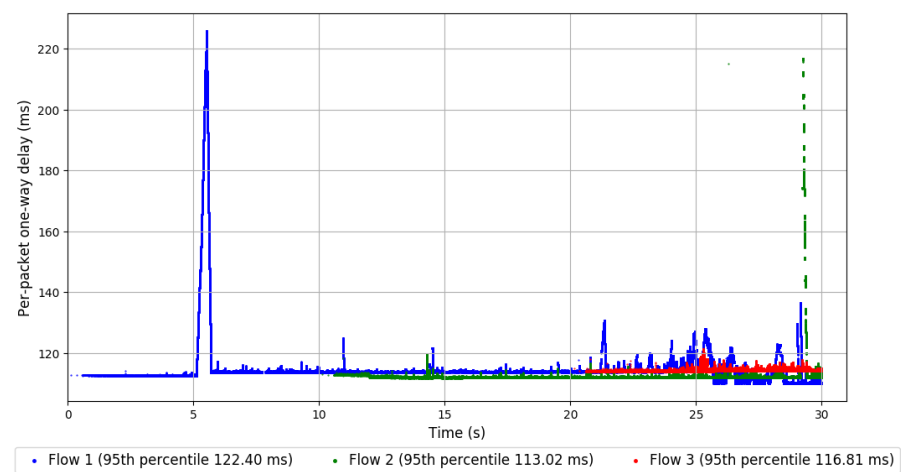
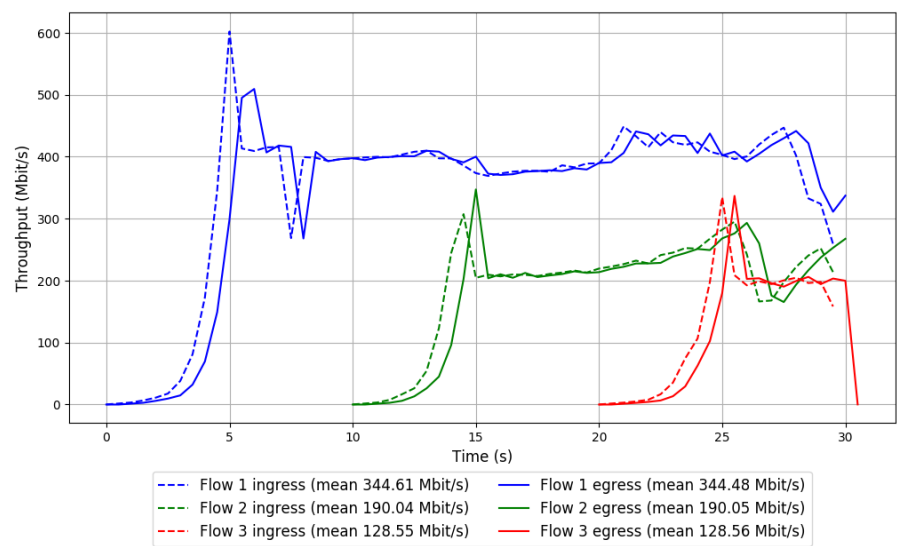
-- Flow 3:

Average throughput: 128.56 Mbit/s

95th percentile per-packet one-way delay: 116.815 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-18 13:54:06

End at: 2018-06-18 13:54:36

Local clock offset: -0.195 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-18 18:36:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.06 Mbit/s

95th percentile per-packet one-way delay: 173.109 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 329.42 Mbit/s

95th percentile per-packet one-way delay: 157.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 268.75 Mbit/s

95th percentile per-packet one-way delay: 172.661 ms

Loss rate: 0.00%

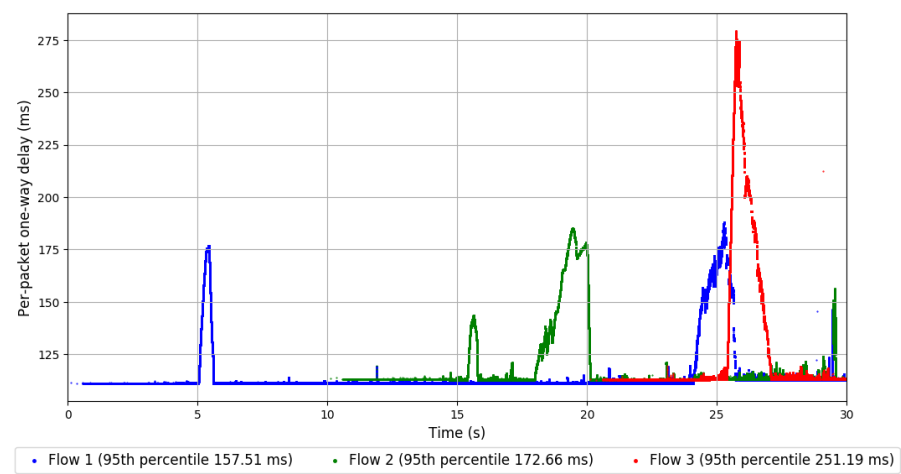
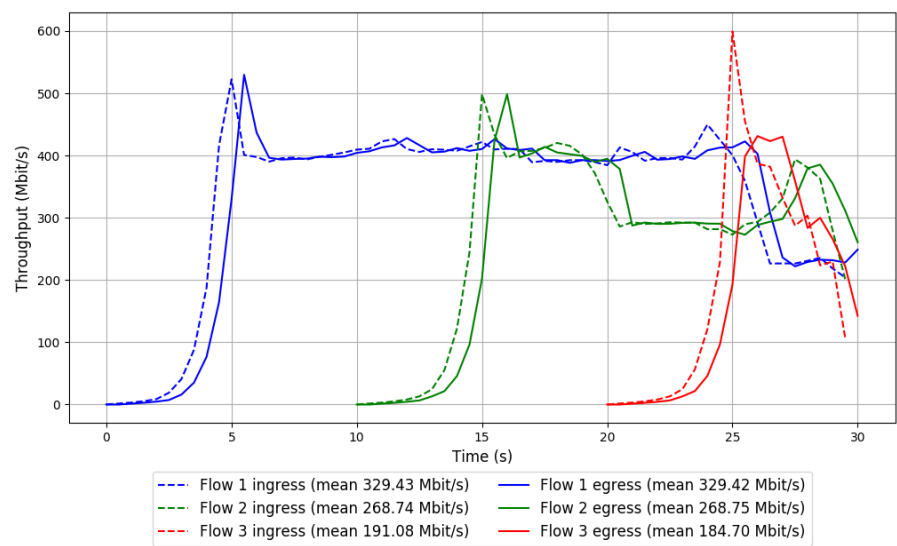
-- Flow 3:

Average throughput: 184.70 Mbit/s

95th percentile per-packet one-way delay: 251.190 ms

Loss rate: 3.36%

Run 4: Report of PCC-Vivace — Data Link

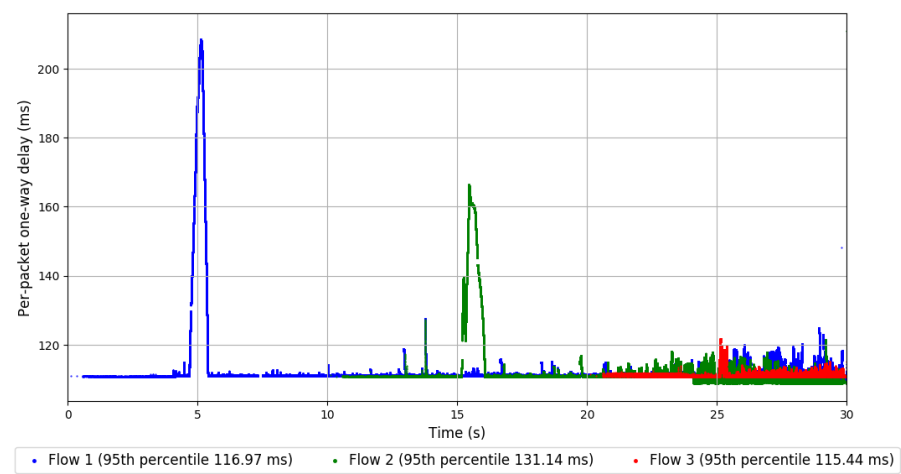
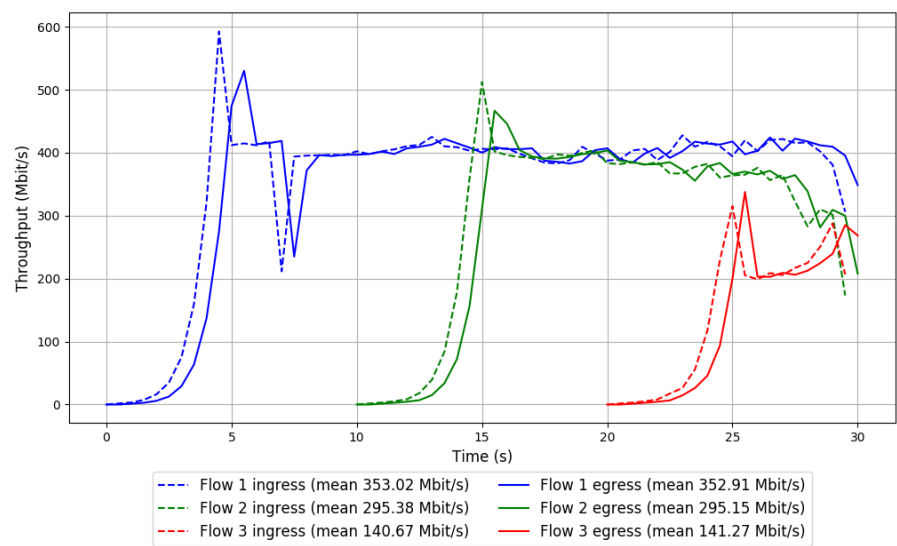


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-18 14:18:17
End at: 2018-06-18 14:18:47
Local clock offset: 1.473 ms
Remote clock offset: -0.293 ms

Below is generated by plot.py at 2018-06-18 18:37:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 595.81 Mbit/s
95th percentile per-packet one-way delay: 117.793 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 352.91 Mbit/s
95th percentile per-packet one-way delay: 116.970 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 295.15 Mbit/s
95th percentile per-packet one-way delay: 131.138 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 141.27 Mbit/s
95th percentile per-packet one-way delay: 115.443 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

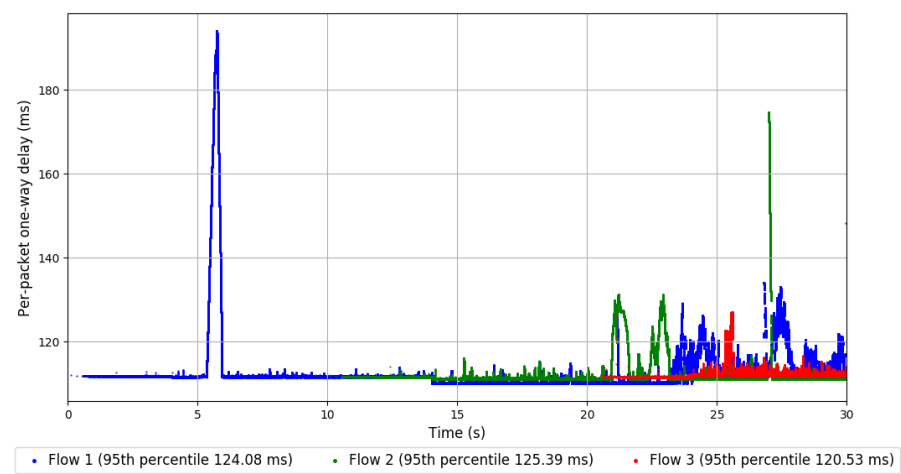
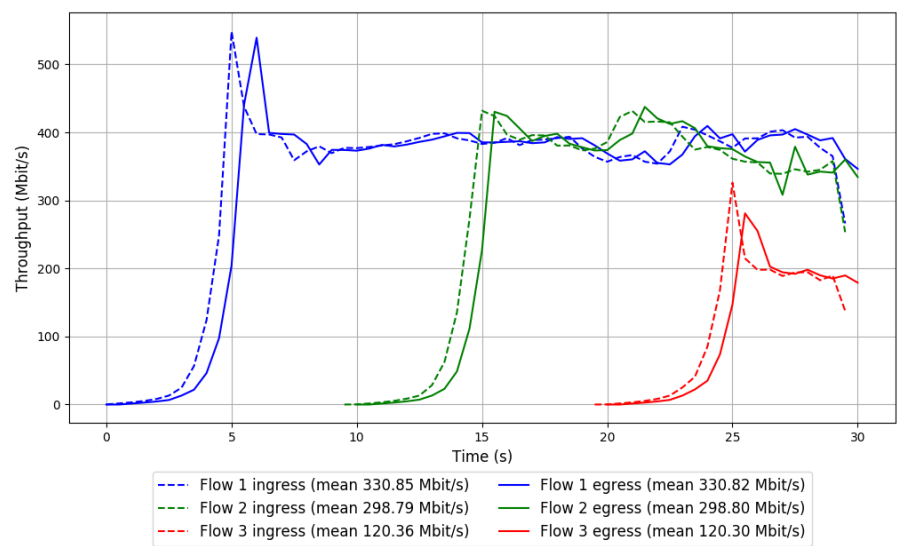


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-18 14:42:37
End at: 2018-06-18 14:43:07
Local clock offset: 0.051 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-06-18 18:37:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 569.53 Mbit/s
95th percentile per-packet one-way delay: 124.023 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 330.82 Mbit/s
95th percentile per-packet one-way delay: 124.078 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 298.80 Mbit/s
95th percentile per-packet one-way delay: 125.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.30 Mbit/s
95th percentile per-packet one-way delay: 120.535 ms
Loss rate: 0.05%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-18 15:06:51

End at: 2018-06-18 15:07:21

Local clock offset: -1.223 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-18 18:37:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 537.55 Mbit/s

95th percentile per-packet one-way delay: 125.737 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 298.54 Mbit/s

95th percentile per-packet one-way delay: 131.597 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 293.21 Mbit/s

95th percentile per-packet one-way delay: 116.306 ms

Loss rate: 0.00%

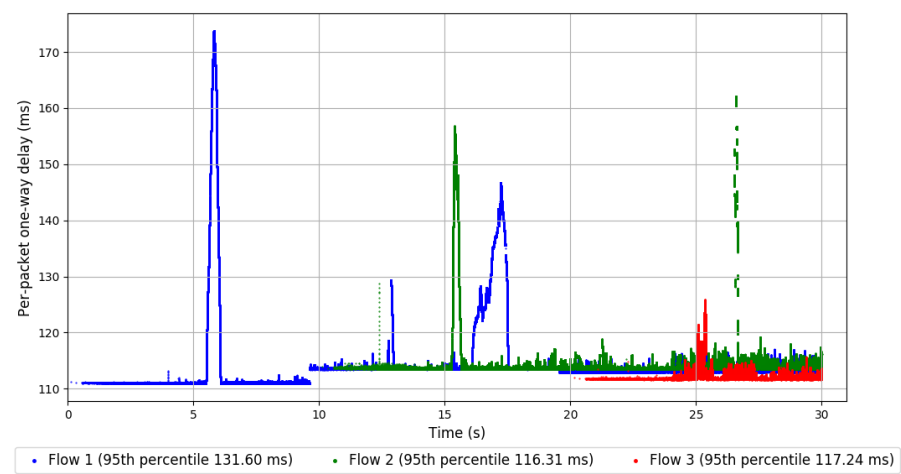
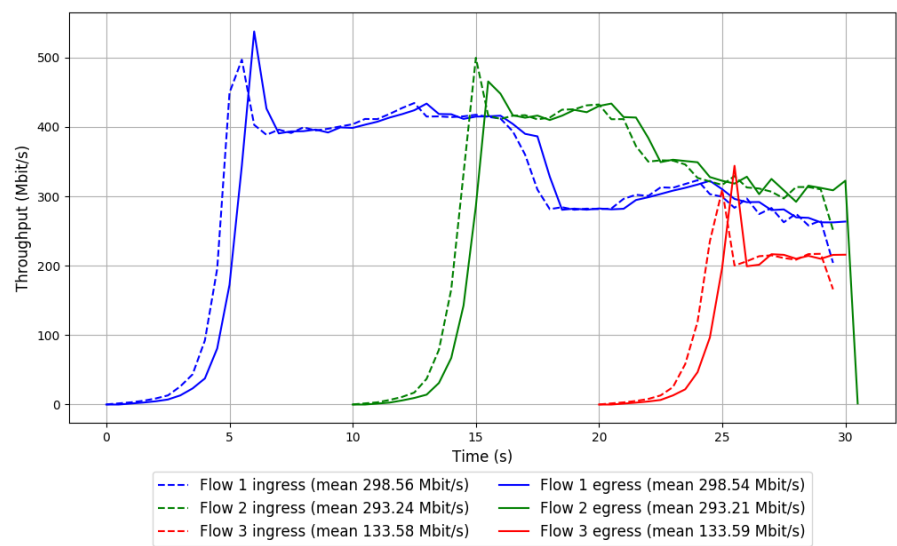
-- Flow 3:

Average throughput: 133.59 Mbit/s

95th percentile per-packet one-way delay: 117.236 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

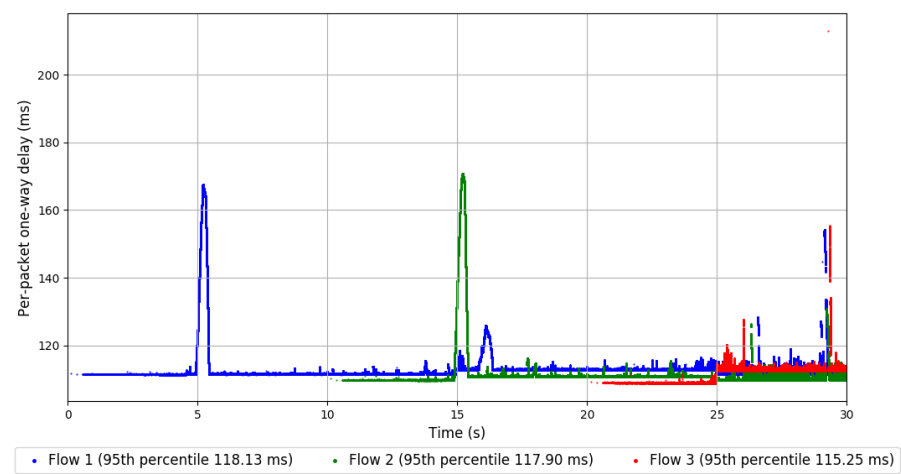
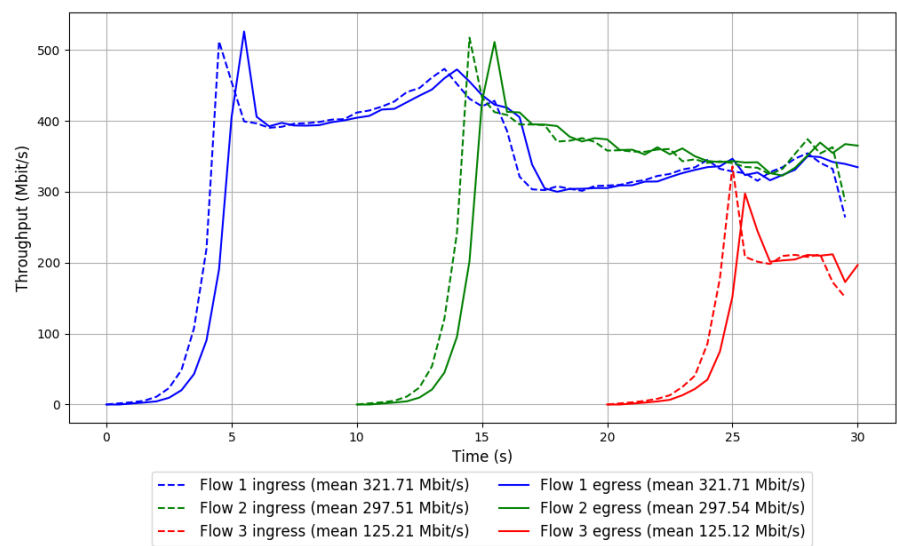


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-18 15:30:46
End at: 2018-06-18 15:31:16
Local clock offset: -0.245 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-06-18 18:38:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 560.80 Mbit/s
95th percentile per-packet one-way delay: 117.361 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 321.71 Mbit/s
95th percentile per-packet one-way delay: 118.130 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 297.54 Mbit/s
95th percentile per-packet one-way delay: 117.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.12 Mbit/s
95th percentile per-packet one-way delay: 115.252 ms
Loss rate: 0.10%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-18 15:54:21

End at: 2018-06-18 15:54:51

Local clock offset: 0.168 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-18 18:39:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.39 Mbit/s

95th percentile per-packet one-way delay: 117.838 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 242.15 Mbit/s

95th percentile per-packet one-way delay: 142.636 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 276.48 Mbit/s

95th percentile per-packet one-way delay: 115.719 ms

Loss rate: 0.00%

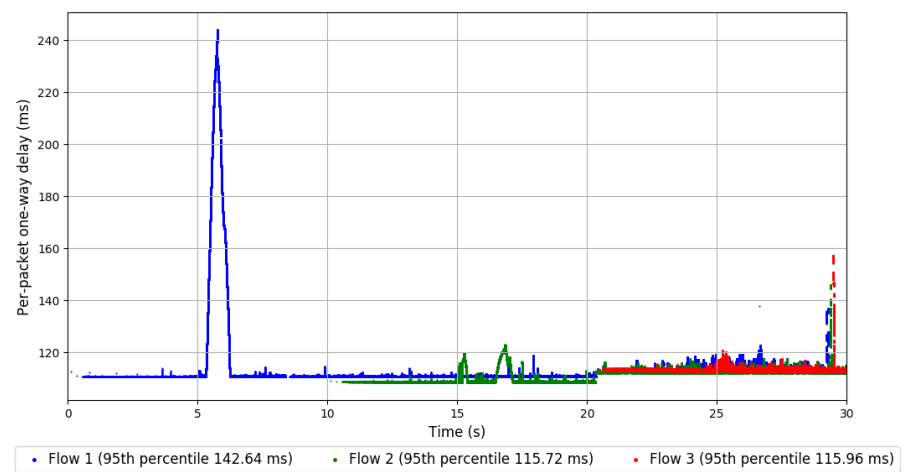
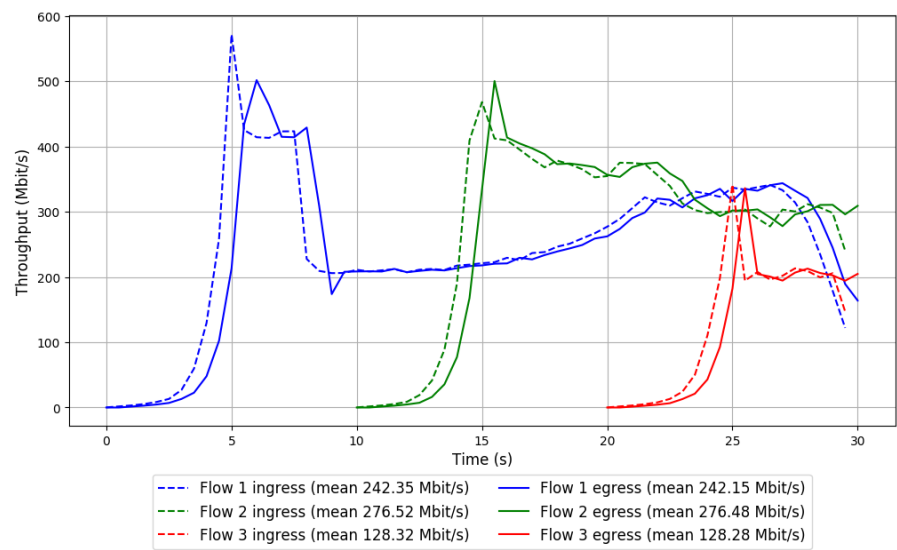
-- Flow 3:

Average throughput: 128.28 Mbit/s

95th percentile per-packet one-way delay: 115.957 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-18 16:18:06

End at: 2018-06-18 16:18:36

Local clock offset: -0.107 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 526.01 Mbit/s

95th percentile per-packet one-way delay: 123.976 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 327.33 Mbit/s

95th percentile per-packet one-way delay: 129.320 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 185.54 Mbit/s

95th percentile per-packet one-way delay: 117.060 ms

Loss rate: 0.00%

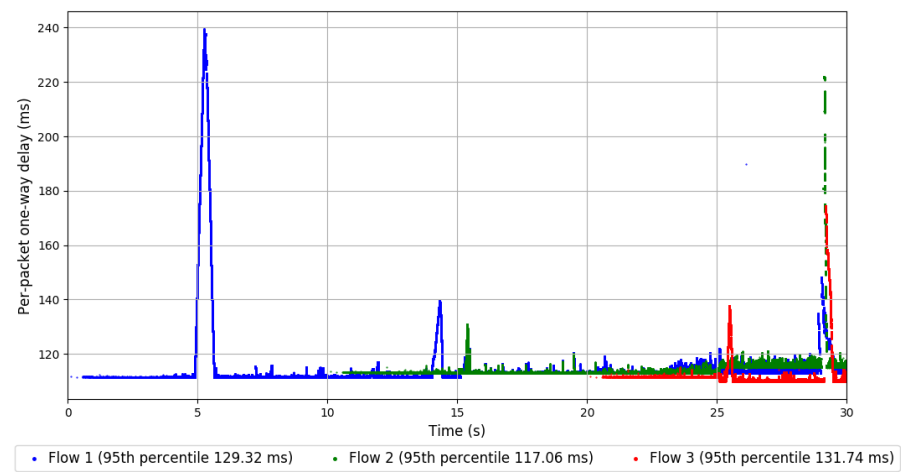
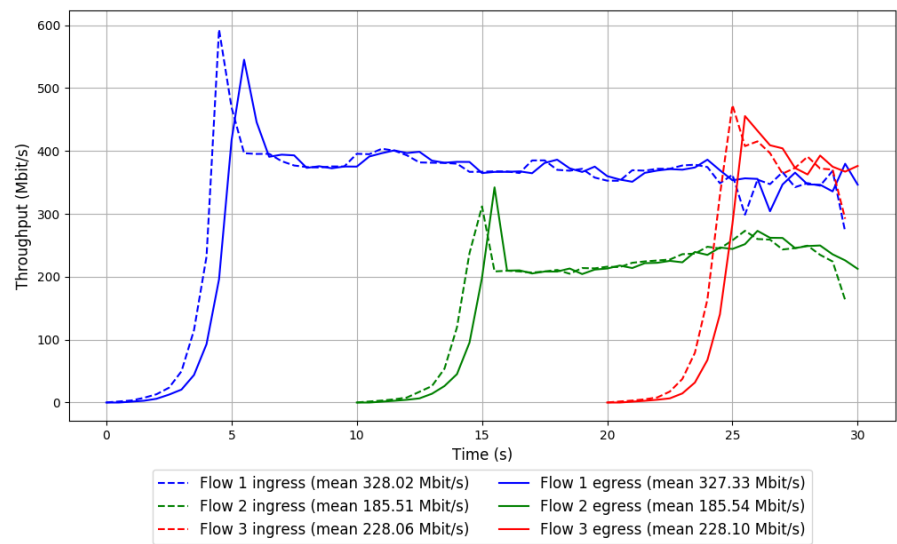
-- Flow 3:

Average throughput: 228.10 Mbit/s

95th percentile per-packet one-way delay: 131.736 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

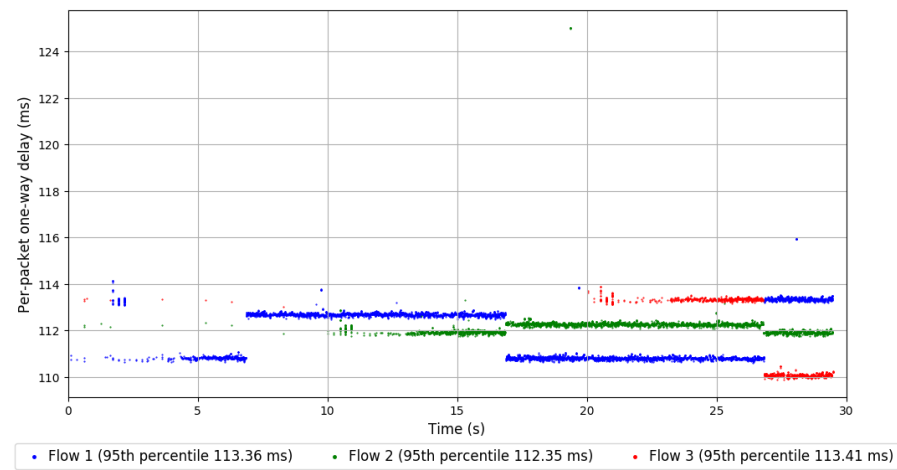
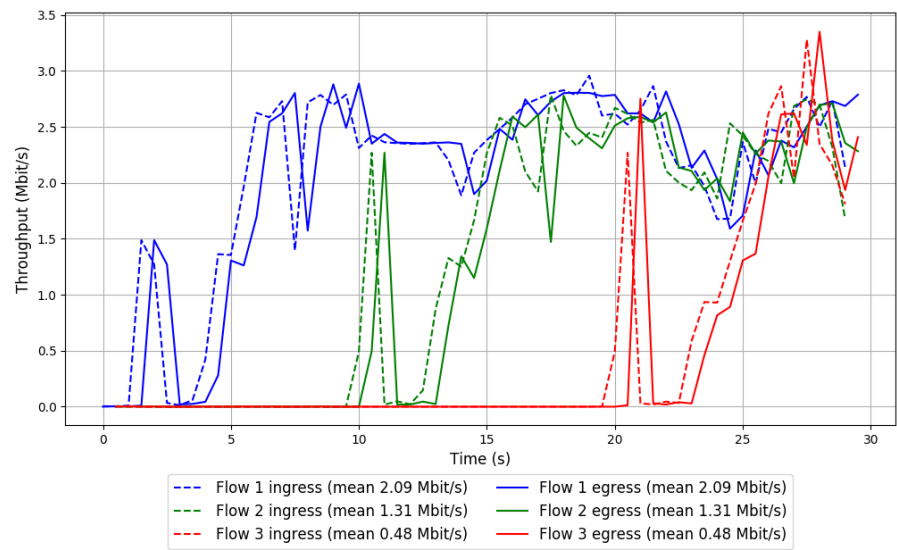


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-18 12:59:34
End at: 2018-06-18 13:00:04
Local clock offset: 0.0 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-06-18 18:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 113.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 113.357 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 112.346 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 113.407 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-18 13:23:40

End at: 2018-06-18 13:24:10

Local clock offset: -0.194 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 112.183 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 111.871 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 112.226 ms

Loss rate: 0.00%

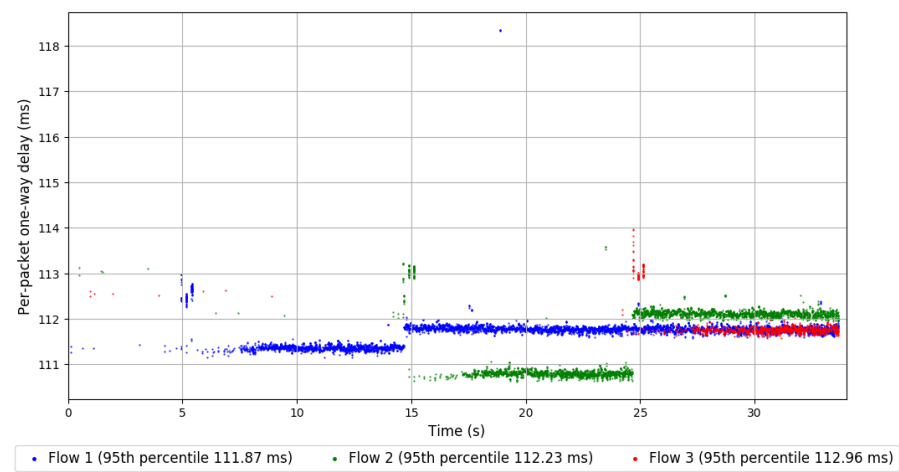
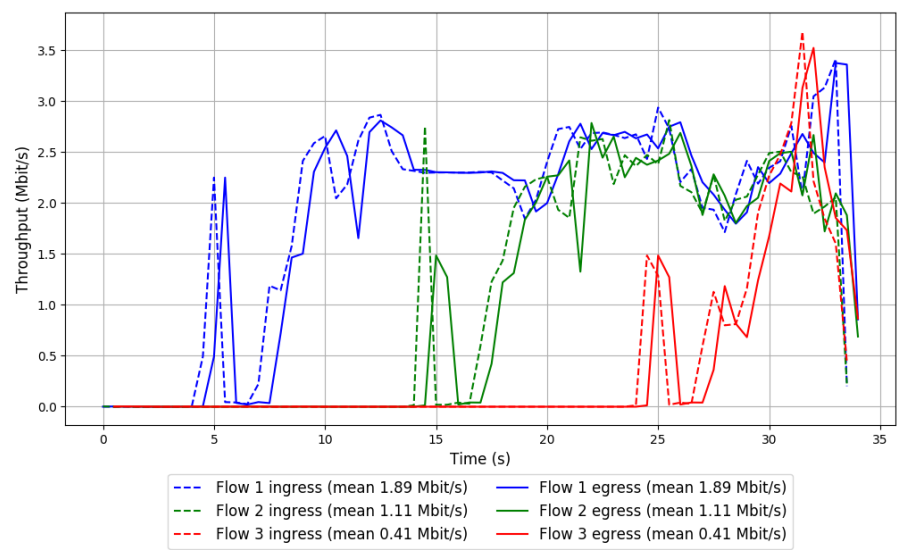
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 112.958 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

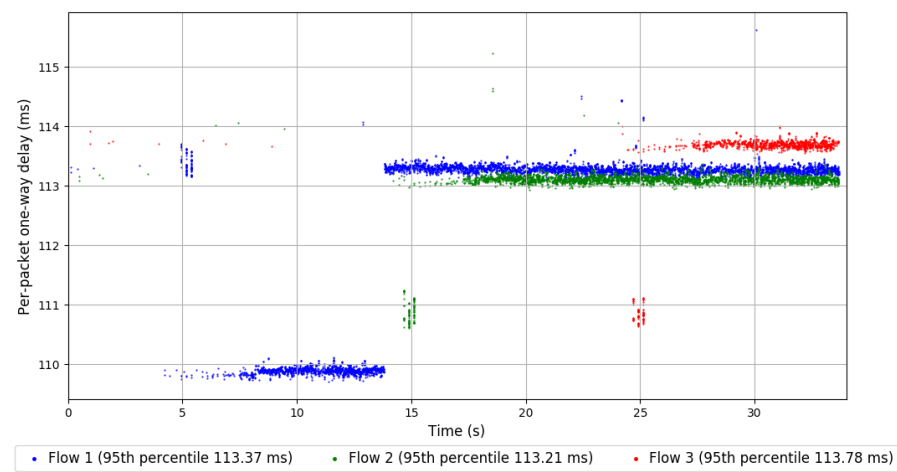
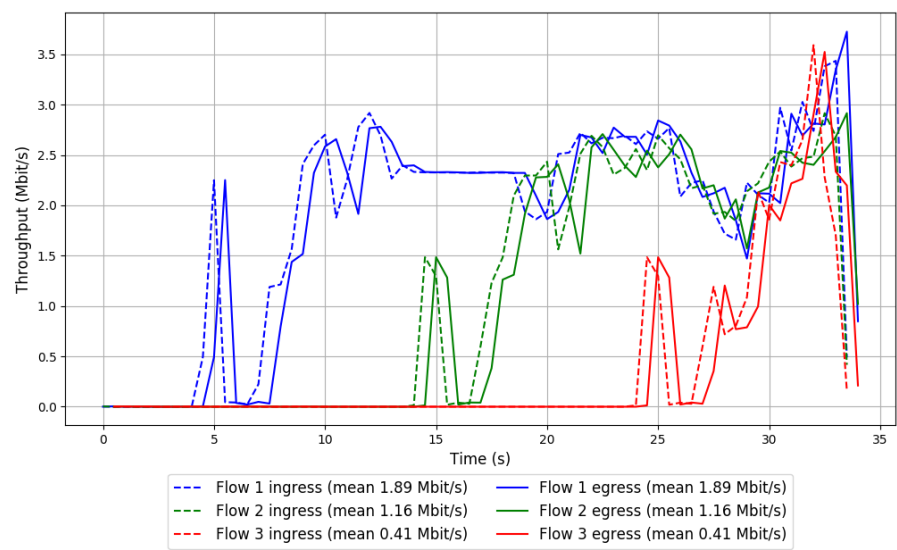


Run 3: Statistics of WebRTC media

Start at: 2018-06-18 13:47:21
End at: 2018-06-18 13:47:51
Local clock offset: -1.317 ms
Remote clock offset: -0.413 ms

Below is generated by plot.py at 2018-06-18 18:39:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 113.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 113.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 113.207 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 113.778 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

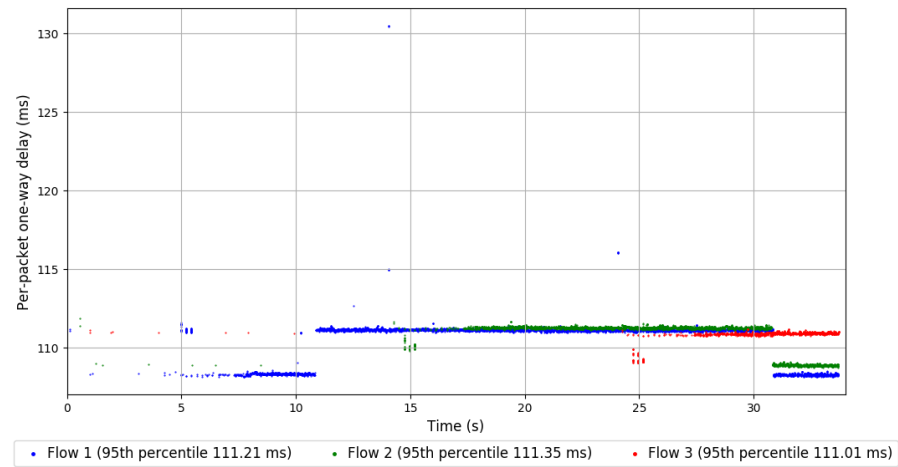
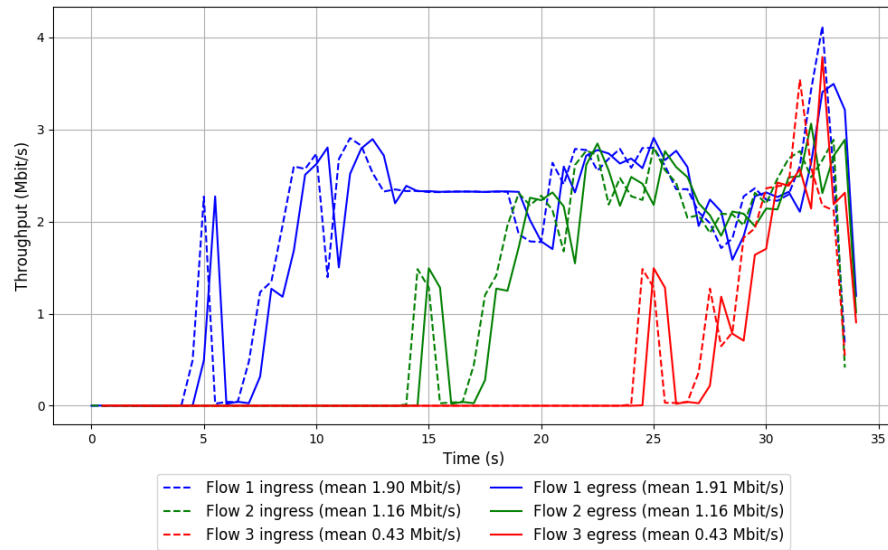


Run 4: Statistics of WebRTC media

Start at: 2018-06-18 14:11:24
End at: 2018-06-18 14:11:54
Local clock offset: 1.392 ms
Remote clock offset: -0.323 ms

Below is generated by plot.py at 2018-06-18 18:39:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 111.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 111.214 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 111.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 111.012 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-18 14:35:55

End at: 2018-06-18 14:36:25

Local clock offset: -1.248 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 114.103 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 114.123 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.00%

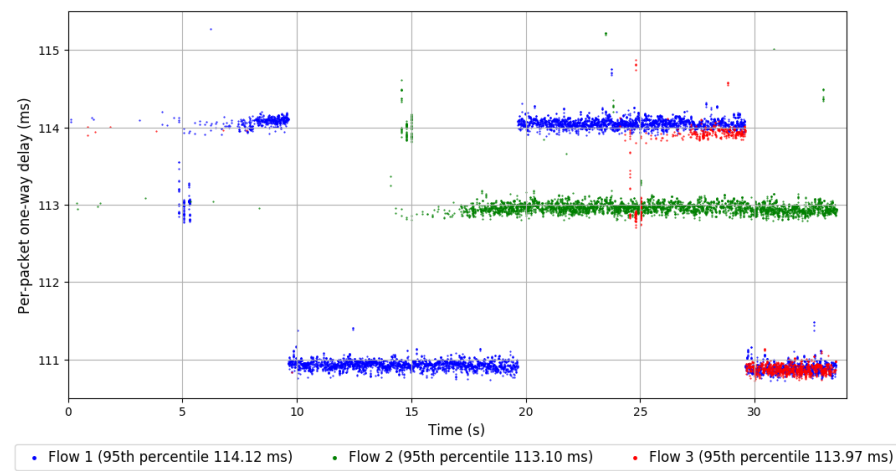
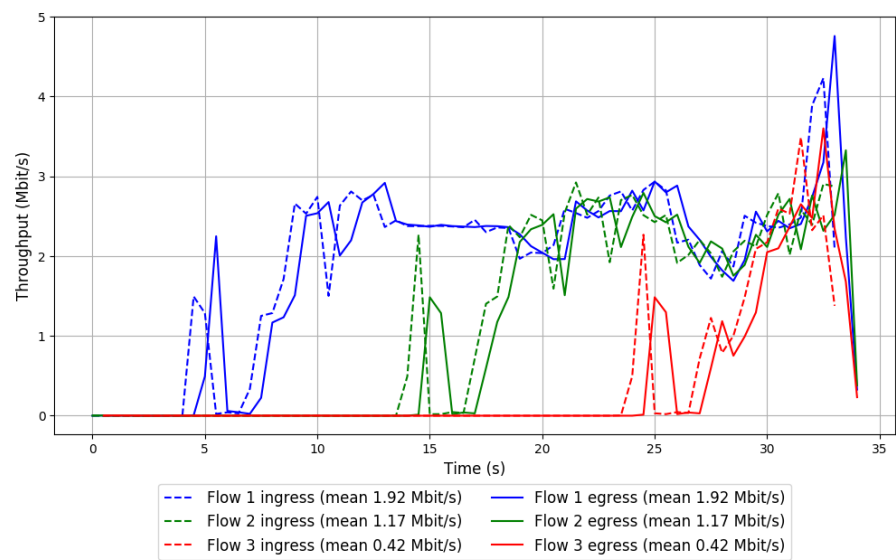
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 113.975 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-18 15:00:09

End at: 2018-06-18 15:00:39

Local clock offset: 1.286 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 110.871 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 109.581 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 110.912 ms

Loss rate: 0.00%

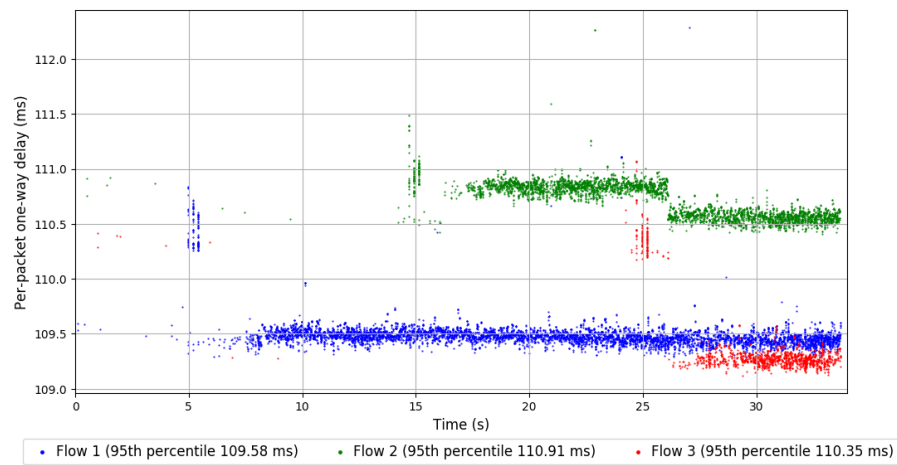
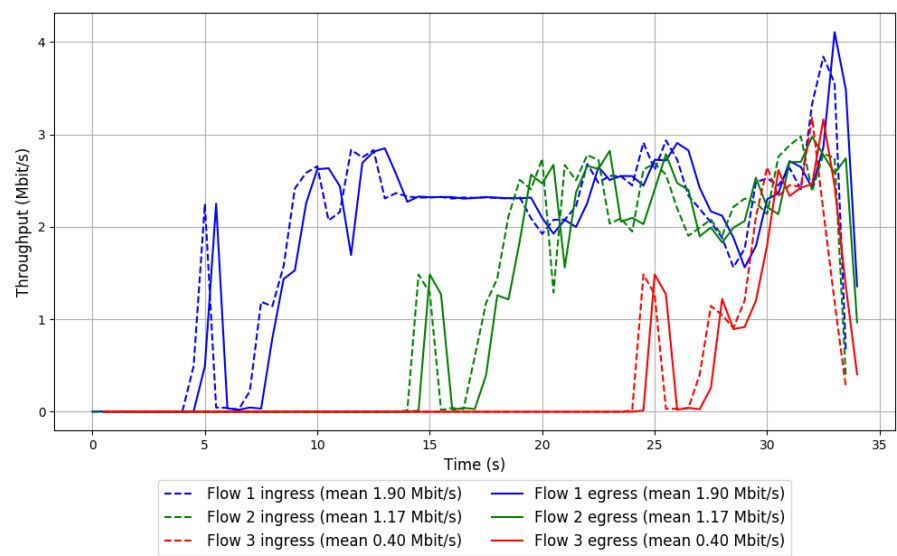
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 110.354 ms

Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-18 15:24:07

End at: 2018-06-18 15:24:37

Local clock offset: 0.221 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 112.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 111.806 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 112.656 ms

Loss rate: 0.00%

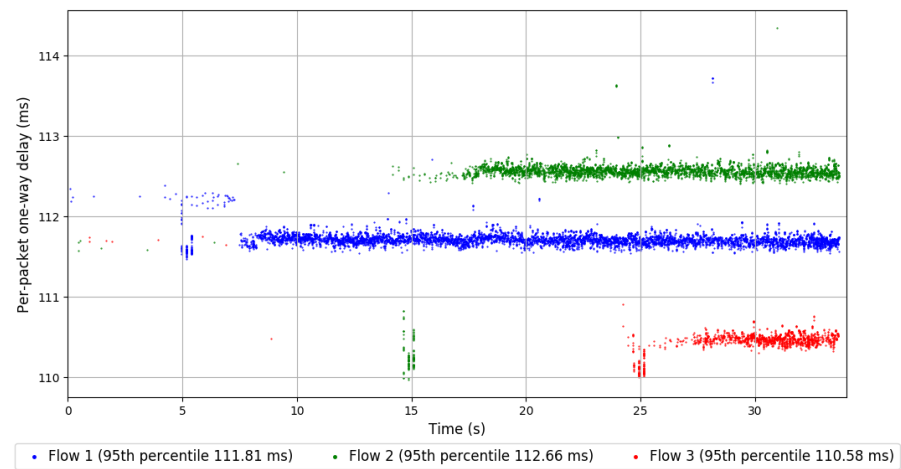
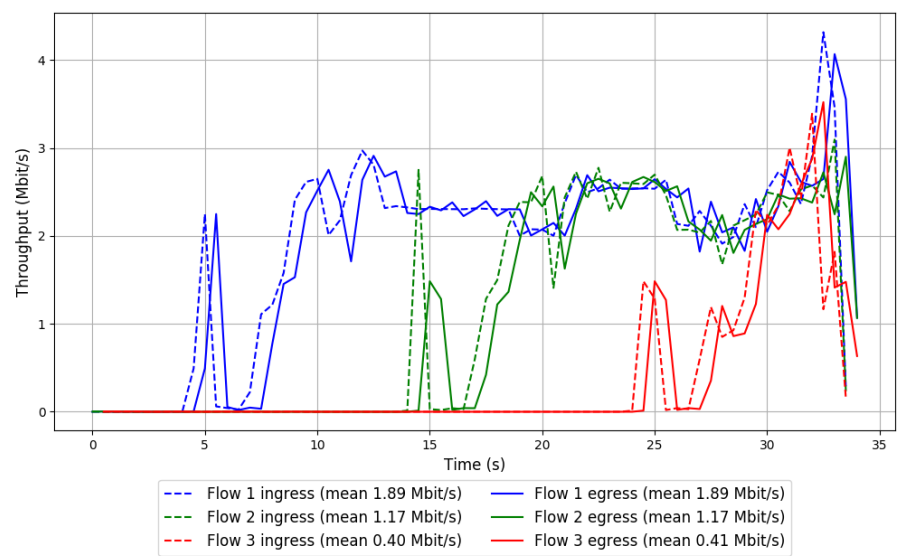
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 110.577 ms

Loss rate: 0.01%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-18 15:47:42

End at: 2018-06-18 15:48:12

Local clock offset: 0.25 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 112.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 112.646 ms

Loss rate: 0.00%

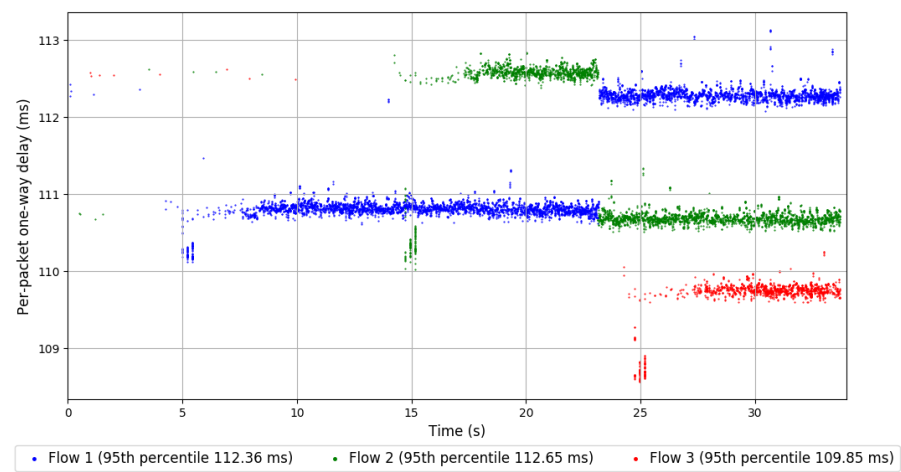
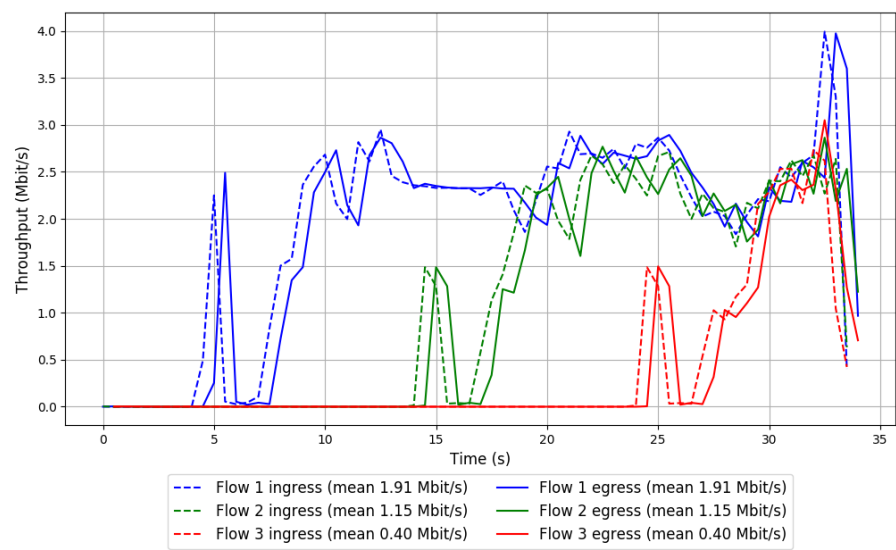
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 109.849 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-18 16:11:24

End at: 2018-06-18 16:11:54

Local clock offset: -1.351 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 114.936 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 114.967 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 112.880 ms

Loss rate: 0.00%

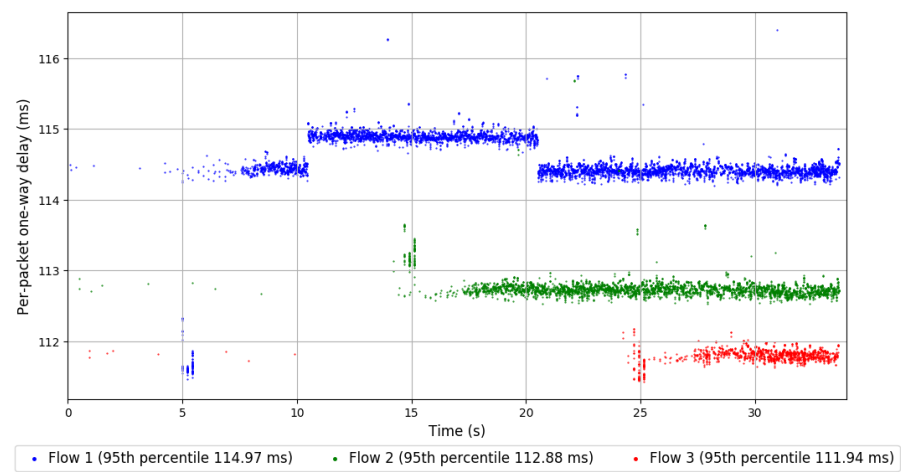
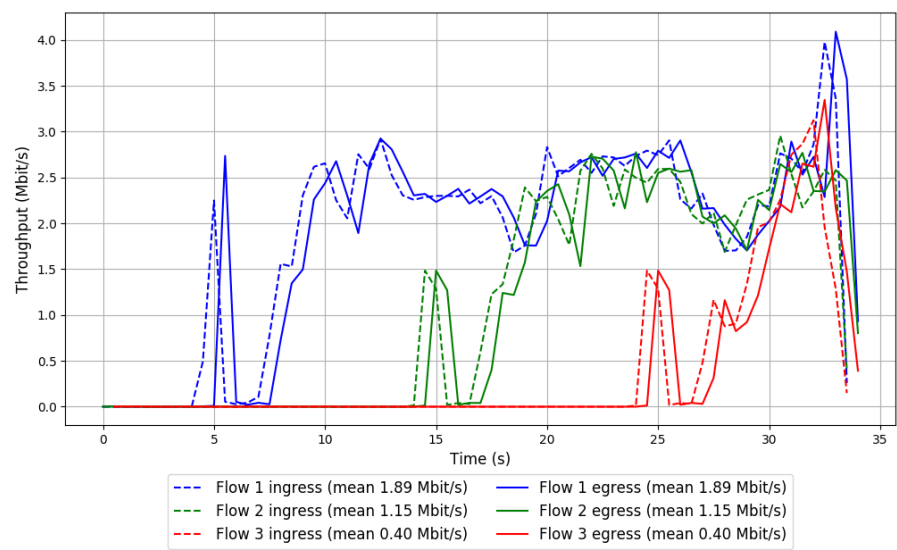
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 111.939 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-18 16:35:11

End at: 2018-06-18 16:35:41

Local clock offset: 1.154 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-06-18 18:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 111.742 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 110.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 110.470 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 111.862 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

